



# CATALOG 2024



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**IMPRINTS**



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## IMPRINTS





## Handbook of Banana Farming

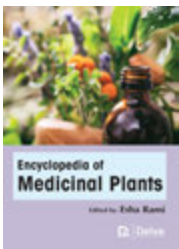
**Devendra Kumar**

Bananas are commonly grown in tropical and subtropical places around the world, where they can contribute a significant number of calories, nutritional variety, and income. Bananas play an essential part in global food security. The organic farming of bananas has more demand than fertilizers-based crops. The fruits that are grown in the organic farming-based cultivations are costly and few consumers can afford them. Bananas are assumed to be one of the world's popular cultivated fruits, and the leaves are used in a variety of dishes. Banana monoculture cultivation on a commercial scale is a relatively new practice. Fresh and processed bananas both require packaging to prevent them from mechanical damage as they move through the value chain. The majority of bananas are consumed raw, with fewer than 5% being processed. Most of the products derived from banana plants can be processed without much loss in the native nutrients. The cooking of the raw banana can release phenolic compounds that can help in human health. The subject of the book starts from providing a clear picture of organic farming of banana its disease & pest control along with processing that are used as processed foods. The book further talks about the physiology of banana, pathology of banana including desert banana, its disease symptoms, fungi, bacteria, nematodes in banana crops. In addition to this, organic production and tissue culture of banana have been discussed descriptively. Unripe banana fruit is used as a cooked vegetable, chips, and other items, whereas ripe banana fruit is mostly consumed raw. Ripe bananas can be pulped and used to make puree, which can then be used in a range of foods such as ice cream, yogurt, cake, bread, nectar, and baby food. Bananas have been subjected to a variety of treatments in order to extend their shelf life, maintain their quality, and improve their marketability. Furthermore, when selling bananas, ripening stages are critical. Ripe yellow bananas are available at most convenience stores and shops and are ready to eat. Banana production and sales have increased in recent years as a result of improved purchasing convenience and greater health awareness.

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### About the Editor

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## Encyclopedia of Medicinal Plants

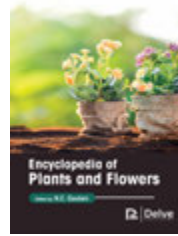
**Esha Rami**

This compilation reports different therapeutic plant species, most ordinarily utilized by native persons throughout the planet. The botanical term, family name, dialect name, partly utilized, and the use of the plants have been mentioned in this work. This encyclopedia presents a rundown of restorative plants generally used for relieving disorders, their bioactive elements, and their means of operation.

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## Encyclopedia of Plants and Flowers

**N.C. Gautam**

This Plants and Flowers book makes reference to 100s of plants and adorns its pages with great quality pictures, definitions and overall cultivation guidance. It's a truly delightful inventory in digital print. As an amateur studying florae, it is a priceless resource for understanding plant names. It's certainly not going to be comprehensive in a globe of 420,000 types of plant, also mentioning the massive numbers of cultivars and varieties. Notwithstanding, it is loaded with the most common and contemporary domestic plants. The book is divided into different plant types, including trees, bushes, climbers, bulbs, water plants, perennials, annuals and others such as delicate plants and desert flora. It provides a close up of blossoms or leaves and gives a true sense of what the plant resembles. This book is an unquestionable resource for any genuine, novice or master gardeners. Flowering plants are a kind of vascular plant that produces blossoms to reproduce. These plants produce seeds inside a fruit product. The scientific term for blossoming plants is angiosperms.

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## Key Concepts in Agriculture and Farming

**Hazem Shawky Fouda**

This book offers to explain in detail the various terms that have been used in Agriculture. Agriculture is the practice of cultivating plants and livestock. Agriculture was the key development in the rise of sedentary human civilization, whereby farming of domesticated species created food surpluses that enabled people to live in cities. The history of agriculture began thousands of years ago.

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## The Latest Technologies in Agriculture and Plant Sciences: Improved Techniques, Methods, and Yields

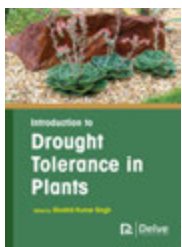
**Hazem Shawky Fouda**

Agriculture production and productivity still has big potential for better that can be achieved by applying better technologies, to apply new technologies we've to research for it first. We are living in a world that instability in supply chains - due to many reasons - of everything including food supply chain, which necessitate us to do more effort to maximize Agriculture products and food productivity to lessen the dependence on imports which we described as instable. Investing more in agriculture research is not luxury it is a must for now and for future to secure stable agriculture products and food supply chain.

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## Introduction to Drought Tolerance in Plants

**Shobhit Kumar Singh**

For developing an effective and efficient system for coping with drought management, the first and foremost task is understand the morphological, biochemical, physiological and molecular changes in plants upon climate alteration. Changing climatic conditions and global warming is causing severe drought condition that is aggravating the food security issue worldwide. The reason for the concern is a complex relationship between prolonged drought period, scarcity of water for irrigation, water deficit area, disturbed rainfall pattern, degraded soil quality, germplasm erosion and increasing food consumption rate. The major goal of sustainable agriculture is to reflect on crop productivity whereas some hope is directly linked with genetic improvement of crops which could provide an effective strategy to enhance the drought tolerance capacity in plants. This needs to be understood in terms of field trials for various varietal development initiatives and addressed better for drought management. Prolonged drought conditions affects the molecular, biochemical, morphological and physiological characteristics of the plants. This book covers the role of drought in reducing the yields and measures to mitigate the losses. Advanced technologies like genome-assisted breeding and nanotechnology are discussed in this book. This book can serve as a handbook for undergraduates and postgraduates who are interested in working on understanding the mechanism and development of drought-tolerant plants through modern breeding approaches.

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### About the Editor

Dr. Shobhit Kumar Singh is working as Scientist C in the Department of Plant Physiology and Breeding, Tocklai Tea Research Institute, Tea Research Association, Jorhat, Assam, India. He completed his Ph.D. in Agriculture with special reference to the development of *Bradyrhizobium japonicum* strains for symbiotic nitrogen fixation in Soybean crop (*Glycine max*) in the year 2012. He has 08 years of research experience in the field of Crop Improvement with special reference to Conventional Plant Breeding, Biodiversity of plant, varietal development of soybean and tea plants. He has long term experience in tea varietal development program.



## Introduction to the Latest Plant Methods: A Guide for Farmers and Researchers

**Hazem Shawky Fouda**

This book serves as a handbook for both researchers and farmers in agriculture. It deals with the latest plant methods used in the research labs. A discussion on plant breeding and stress tolerance can be helpful for students and researchers. Advanced topics like embryo culture and transgenic plants were discussed in detail. Antiviral resistance and bioinformatics related to plant biology are emphasized. This book explains the phenotyping of plants and nanotechnology applications that are beneficial for plant growth and reproduction. The problems associated with genetically modified plants were discussed. This book can be used for students who are pursuing graduate and undergraduate courses.

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## Genome Targeting for Crop Improvement

**Dipak Guvanta Ingole**

World population is growing exponentially and with changing climatic scenarios, food security is a concern that needs immediate attention. Increasing crop productivity from limited land and natural resources is a challenge for agricultural scientists across the world. The technique of gene targeting for targeted trait improvement in crop plants are helpful in eliminating the defects of otherwise elite varieties. Genetically modified crops are being introduced to the market due to their improved characteristics, which benefit agricultural communities. However, the GMOs face regulatory concerns for field trials and commercialization due to the presence of foreign genes. Gene editing has aided us in modifying DNA sequences in order to create superior qualities. Molecular scissors, such as sequence specific nucleases, are commonly utilized to optimize gene editing operations. With the introduction of the CRISPR-Cas method, the gene editing process in plants has accelerated, paving the way for the modulation of non-model plants that are beneficial to the global population. Transformation strategies have been demonstrated to improve the quality of plant yields. Plant biotechnology has resulted in the development of various herbicide and pesticide resistant plant varieties, which are critical in modern agriculture. They can significantly lower the cost of insecticides and herbicides, so benefiting farmers. Climate change has necessitated various adjustments to the plant genome in order to save people from starvation worldwide, a challenge that is being addressed through the introduction of gene editing tools. This book sheds light on a variety of areas of gene targeting, with a particular emphasis on crops farmed throughout the world. This book is appropriate for any student interested in learning about gene editing and its significance in crop development.

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## Soil Science as an Ecological Study

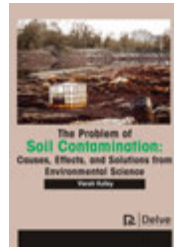
**Kailash Ramesh Rao Malode**

A text book of Soil Ecology, offers a physico-chemistry approach to soil biology and ecosystem function, providing students and ecosystem researchers with a greater understanding of the central roles that soils play in ecosystem development and function. The text emphasizes the increasing importance of soils as the organizing center for all terrestrial ecosystems and provides an overview of theory and practice in soil ecology, both from an ecosystem and evolutionary biology point of view. This book is fully updated, including an expanded treatment of microbial ecology and new sections on advances in molecular techniques and climate change research. These updates make this edition an essential resource for researchers and students in soil ecology and microbiology. The book has presented a historical background of soil concepts, extending from early Chinese and Mesopotamian cultures, through Greco-Roman, into modern times. Much modern research focuses at the interface between soil, water, gases and organisms. Soils have texture and structure, arising via a range of mechanisms, mediated by the production of soil organic matter. Soil is one of the most heterogeneous environments that exist in nature and existing within this complex matrix are soil biota ranging from virus particles through to macro fauna. From this complex environment comes most of the food needed for the world population. This highlights the absolute importance of improving our understanding of this complex environment. Soil biodiversity changes driven by global change are the result of direct impacts (changes in temperature and moisture), and indirectly, through shifts in nutrient supply from plants. Invasive plants and animals add to the complexity of these long-term processes. Increasing food web complexity in soils should provide improved "health" (i.e., enhanced recycling of nutrients) in agro-ecosystems. . It critique of the interfaces between soil food webs, and enhanced provision of ecosystem services over landscapes at millennial time scales. In this book the physico-chemical and biological properties of soil have been mentioned, reader's will have a book that will go a long way to words giving them the understanding of soil ecology relevant to research in production, agriculture and on environmental issues.

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## The Problem of Soil Contamination: Causes, Effects, and Solutions from Environmental Science

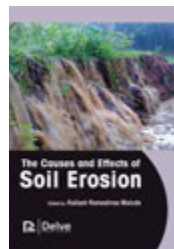
**Vierah Hulley**

Soils are natural resources that play a critical role in providing ecosystem services to sustain life. However, soils are susceptible to anthropogenic activities. These activities introduce contaminants of concern into the soil environment creating a source zone for environmental and human health impacts. This book provides a comprehensive treatise on the activities that cause soil contamination, the impacts of contaminated soils, and the status quo on policies, remedial actions, and technologies available to assess and manage these risks.

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Vierah Hulley (PhD) is an international expert in Environmental and Earth Sciences, with an extensive vocational background in the areas of environmental policy development, environmental and social risk management, natural resources management, sustainability, and climate risks management. She is the Founder of HL Nexus: Sustainable Management Solutions; a company dedicated to harnessing the power of data science in managing sustainability and climate risks. Vierah holds a master's degree in Geology and a PhD in Hydrogeology, with a focus on environmental and spatial science.



## The Causes and Effects of Soil Erosion

**Kailash Ramesh Rao Malode**

Soil health is of much significance to farmers and the populace that rely on farming for food and business. There are a few obstacles to combat soil erosion, however there are solutions for forestall it also. Soil erosion is a natural process involving wearing out of the topsoil, notwithstanding human activities have sped up the cycle. It is generally caused by the eradication of vegetation, or any activity causing the ground to become dry. Grazing, farming, mining, and industrial development are some of the factors that cause soil erosion. The impacts of soil erosion are not simply land destruction. It has prompted a sharp increase in environmental pollution and sedimentation in streams that obstructs the water bodies bringing about a decline in aquatic life forms. Degraded lands lose their water holding capacity bringing about floods. This volume contends that soil erosion is a main trigger for desertification. It changes the livable areas into deserts. Deforestation and damaging utilization of land further deteriorates the situation. This likewise prompts loss of biodiversity, soil degradation, and ecosystem changes.

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## Basics of Plant Sciences

**Khushboo Chaudhary, Pankaj Kumar Saraswat and Aniruddh Kumar Pareek**

Plants are fundamental to all life on Earth. They provide us with food, fuel, fiber, industrial feedstocks, and medicines. Plant science is essential to maintaining the world around us. The topics covered are inclusive but not limited to plant breeding, mode of reproduction in crop plants, plant variation, genetic consequences of self and cross-pollinated crops, male sterility, polyploidy and mutation breeding. The aim of this book is to give a sequential knowledge of plant pathology, plant breeding, plant biochemistry, environmental science and agro-ecology, vegetable production and biostatistics and computers in this book.

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*Mr. Aniruddh Kumar Pareek is presently working as a freelancer in the field of Intellectual Property Rights. He is a Registered Patent Agent and Trade Marks Agent at the Patent & Trademarks Office, Government of India. He is having seven years of experience in Intellectual Property (IP) Law and practice, Patent drafting and prosecution, Patent search and analysis, Trademark prosecution and search. He is also having eight years of research experience in the fields of Biotechnology, Plant Sciences and Animal Sciences. He graduated from Maharaja's College, University of Rajasthan, Jaipur in 2000, completed post-graduation in Biotechnology from Bundelkhand University, Jhansi in 2002 and LL.B. from University of Rajasthan, Jaipur in 2020. He has published several research papers in international and national journals. He has also submitted several abstracts in various seminars and conferences. He is a life member of the Indian Society for Sheep and Goat Production and Utilization (ISSGPU).*



## Farm Structures: Factors and Considerations

**Nekesah T. Wafullah**

There are many approaches to ensure the commercial profitability of a farm. Apart from farm inputs, farm structure plays a big part in protecting these efforts from negative impacts. Farm structure provide conducive environment for running a prosperous farm. This book walks you through the nitty gritty of farm structures including how they are classified, their functions and the build quality in order to achieve best outcome. The book looks at the different materials farmers will use in order to achieve the most conducive environment and also compares the outcome with the cost implication of choosing the material. The book also suggests some of the considerations to make while trying to design a simple farmstead plan. For people looking to contract building of farm structures, this book gives an outstanding review of factors to consider, documentation and building element to be keen on while contracting. This book is a good read for people who are starting a new farm or are aiming to enhance an already existing farm stead.

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### About the Author

*Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. in Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.*



## Precision Agriculture: Enabling Technologies

**Nekesah T. Wafullah**

The growing world population is constantly driving the food demand up. Coupled with the ongoing environmental concern farmers are required to be more precise in food production in order to increase food production and at the same time be environmentally sustainable. This book looks at the various technologies that help farmers gradually achieve precision agriculture (PA). The book discusses technologies that help observe measure and compute variabilities in production in order to achieve accuracy in operations. The book also looks at the importance of PA in quality assurance of activity and processes along the value chain by ensuring transparency among value chain players and ensuring compliance with good agricultural practices (GAPs). This book will help the audience understand the principles of PA in crop and animal production and also help them gradually adopt PA practices in production based on their level.

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## Agriculture Management Approaches

**Pankaj Kumar Saraswat, Khushboo Chaudhary and Meraj Alam Ansari**

Plants are valuable resources for all living organisms that provide food, medicine, produce oxygen and regulate the water cycle. This book has updated information on agricultural land management by using organic waste or recycling organic waste, heavy metal contaminated groundwater, using gypsum and integrated management of soil for improving crop productivity. While the main emphasis is given to increasing the proper and balanced use of mineral fertilizers, the role of organic manure, biofertilizers, and green manuring and recycling of organic wastes should be considered supplementary and not substitutable.

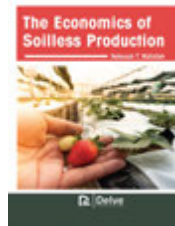
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### About the Authors

Dr. Pankaj Kumar Saraswat graduated from R.B.S. College Bichpuri (Agra University) Agra in 1996, completed post-graduate and Ph.D. in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004, respectively. Dr. Saraswat started his career at H.N.B.G. University Srinagar Garhwal Uttrakhand in 2005 as a lecturer in Soil Science and moved as Subject Matter Specialist (Soil Science) to KVK Banasthali Vidyapith Tonk Rajasthan. In October 2015, Dr. Saraswat joined ICAR-RC for N.E.H Region Umiam as Sr. Scientist & Head at KVK Tamenglong Manipur. Dr. Saraswat as P.I. completed two research projects externally funded from SERC-DST Govt. of India New Delhi and DST-Govt. of Rajasthan Jaipur. At the same time, he also conducted four INSPIRE-Internship Science Camps under the SEAT program of DST for 10th pass top 1% students of Rajasthan. Presently Dr. Saraswat has been working on agricultural technology assessment and demonstrations for its wider application at farmers' fields along with capacity development programs for farmers, farm women, rural youth, line departments and other stakeholders and also as P.I. in an NEC Shillong funded demonstration based projects in Tamenglong district Manipur.

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has 1 year of teaching experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published three international textbooks. She has got seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also at the International Conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in a virology journal. She is likely to be a co-author in several publications and coauthor in J. Virological Methods.

Dr. Meraj Alam Ansari is presently working as a Scientist under the Agronomy Division from ICAR-RC for NEH Region, Manipur Centre Imphal. Dr. Ansari M.Sc. (Agriculture) Agronomy from CSA University of Agril & Technology Kanpur and Ph.D. from IARI New Delhi joined Agricultural Research. He is a Scientist, Agronomy at ICAR-RC for NEH Region, Manipur Centre Imphal, he has been engaged in farming system research including soil management crop production and the development of integrated farming system (IFS) model suitable and profitable for Jhumland hill farming.



## The Economics of Soilless Production

**Nekesah T. Wafullah**

Crop production is closely associated to soil. However, this is not the only way to grow crops. With continuous advancement in science research growing of crops is now being done in soilless media and this practice is growing. With soilless crop production reducing the risk of soil borne diseases, this book helps the audience to learn the details of soilless production in a simple language and well-illustrated explanations. The book describes crops that are mostly grown in soilless media and the reasons behind the crop's choices. It also discusses the most important physical and chemical properties of different soilless medias. Further it describes how to carry out management practices of different soilless media in order to get the most from the media. It also shows how to maintain, recycle and dispose the soilless media. This book has great knowledge for individuals seeking to invest in soilless production at both starter level or pro level. The audience of the book also get some basic guide on some steps of establishing either a small scale or large-scale hydroponic farm. At the end of the book, the audience will benefit from a detailed review of how to grow some crops that are commonly grown in soilless media.

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### About the Author

Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)-Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M.Sc. in Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.



## The Science of Plants

**Indrachand Chavan**

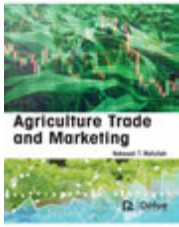
This book sheds light on New Age Molecular Techniques, Transgenic plants, Plant Metabolomics, Plant Phosphate Nutrition and Environmental Challenges, Improving Nitrogen and Phosphorous efficiency for optimal yield and growth, Nanotechnology in Agriculture, and Miscellaneous Neglected and Underutilized Legume Crops. The first chapter introduces the readers to Molecular Techniques. This chapter will also emphasize on the concept of Molecular Marker Analysis, DNA Sequencing, Genetic Linkage Mapping, Marker Assisted Selection, Omic technologies and Bioinformatic Analyses. The second chapter provides an overview of transgenic plants while third chapter covers plant metabolomics. The fourth chapter takes the readers to Plant Phosphate Nutrition and Environmental Challenges. The fifth chapter introduces the readers to Improving Nitrogen and Phosphorous efficiency for optimal growth and yield. The sixth chapter throws light on the role of Nanotechnology in Agriculture. The last chapter of this book sheds lights on Miscellaneous Neglected and Underutilized Legume crops (MNUGLs). This chapter also mentions about some selected MNUGLs, its their genetic potential, their role in sustainable agriculture, etc. This book provides a reference material for UG and PG students, research scholars and science professionals.

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### About the Editor

Dr. Indrachand Chavan (1983) is presently serving as a Principal, Maratha Vidya Prasarak Samaj's KDSP College of Agriculture, Nashik. He obtained his B. Sc. (Ag.) in 2006 from Dr. BSKKV, Dapoli, Ratnagiri, M. Sc. (Ag.) in 2009 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph. D. Agronomy in 2014 from Sr BSKKV, Dapoli. He started his career as Assistant professor in 2008. His field of specialization is crop husbandry. He has published 01book and 09 research paper in National and international journals of repute. He has participated many National, State Seminar and symposiums. He has delivered Radio talk, Lectures in farmer training programme.

## Agriculture Trade and Marketing



**Nekesah T. Wafullah**

Fulfilling the demand for food in urban and rural areas is vital. Given the changing preferences by consumers, trade ensures that these demands can be met at any point of production, locally or globally. This book explores the agriculture market and its functions. The book uses the value chain approach to explain how manufacturing, purchasing, and selling goods works in an agriculture market. The book further shows some mechanisms and factors considered in determining price of agriculture commodities and services. Given the politics involved in price determination, the book also offers some business models like cooperatives that make farming value chains more resilient and provide better quality products while still remaining competitive at a global level. The book also reviews some trade policies that may affect global trade. This book is quite elaborate for an audience needing some knowledge on agriculture trade and marketing, especially if one want to take advantage of global trade. The book can act as a guide in analyzing agriculture value chain based on the discussed factors.

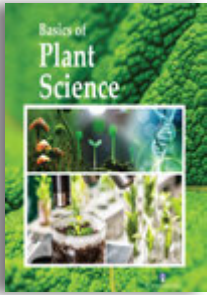
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### About the Author

*Nekesah T. Wafullah is a skilled agriculture expert with extensive knowledge in agricultural energy value addition products, agricultural business management services, project management, various forms of fertilizer, their production, sales, marketing aspects and application regimes; cross border fertilizer trade policies; youth and women empowerment and volunteerism. She is adept at project planning and management as well as creating simple solutions to complex problems. She has experience within agricultural markets in Kenya, Zambia, Malawi, Tanzania, Rwanda, Democratic Republic of Congo (DRC)- Bukavu and Lubumbashi and Uganda. She mentors high school and college students and advocates for better performance in Agricultural science. During her free time, she loves editing books, watching movies, cooking, baking, networking, reading, and dancing. Nekesah holds an M Sc. in Agricultural and Applied Economics degree from the University of Nairobi with a major in International Trade and Policy.*

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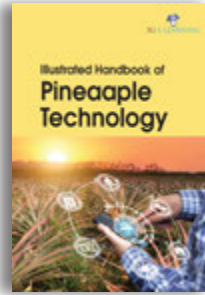


### Basics of Plant Science

- A comprehensive guide for anyone interested in understanding the fundamental concepts of plant biology.
- Covers different topics such as plant anatomy, physiology, ecology, genetics, and evolution in a clear and concise manner.
- With its engaging writing style and helpful illustrations, it is an excellent resource for students.

ISBN: 9781984685735 | Price: \$70 | Copyright: 2024 | Binding: Paperback |

Publisher: 3G E-learning LLC



### Illustrated Handbook of Pineapple Technology

- Provides an in depth and contemporary coverage of knowledge and practices in the value chain of this popular fruit, from production through to consumption.
- The book demonstrates that the application of enzymes in juice extraction, bioreactor technology, and biological de-acidification.

ISBN: 9781984681225 | Price: \$180 | Copyright: 2023 | Binding: Hardcover |

Publisher: 3G E-learning LLC



### Coffee, Tea, Spice, Herbs and Non-Timber Products Production and Processing

- Includes a number of beverages (primarily coffee and tea), spices, condiments, sauces, soups, and other food products.
- Presents coverage of non-timber forest products (NTFPs), including wild foods, forage, medicinal plants, construction materials, fuelwood, and raw materials for handicrafts.

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Publisher: 3G E-learning LLC



### Principles of Plant Nutrition (2nd Edition) (with Access Code)

- Provides a readily accessible source of highly current and reliable information on the nutritional requirements of the most significant crops being cultivated worldwide.
- Deals with information on what plants need for normal vigorous growth and development-free of nutritional stress.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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Publisher: 3G E-learning LLC



### Essentials of Ecology: World Edition (2nd Edition)

- A coherent presentation of the fundamental concepts and principles of ecology and environmental science.
- The book covers all major fundamentals of ecology, well-supported by illustrations & exhaustive real-time stats.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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### 3GE Collection on Agriculture: Plant Pathogen Resistance Biotechnology

- Discusses the key approaches to managing each group of pathogens within the context of recent developments in biotechnology.
- Examine the most recent developments in molecular plant pathology.
- This book also covers biological mechanisms underpinning disease resistance in plants.

ISBN: 9781984680846 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |

Publisher: 3G E-learning LLC



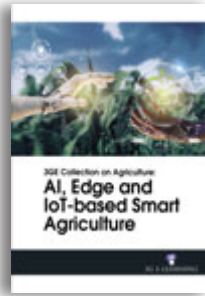
### 3GE Collection on Agriculture: Technological Advancements in Plant Sciences

- Covers latest developments in the important field of plant biology/science from around the world.
- This book will be a valuable resource to students and researchers in the field of cutting-edge plant omics.

- This book presents an overview of the latest advances and developments in plant biotechnology.

ISBN: 9781984680853 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |

Publisher: 3G E-learning LLC

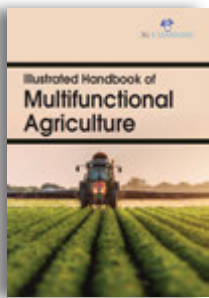


### 3GE Collection on Agriculture: AI, Edge and IoT-based Smart Agriculture

- Addresses precision irrigation, precision horticulture, greenhouse IoT, livestock monitoring, and IoT ecosystem for agriculture.
- Presents featuring coverage on a broad range of topics such as crop monitoring, precision livestock farming, and agronomic data processing.

ISBN: 9781984680860 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |

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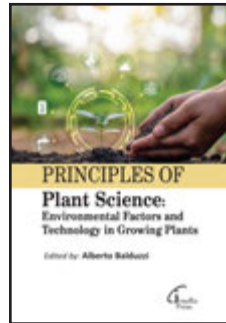


## Illustrated Handbook of Multifunctional Agriculture

- This book brings aims to investigate what this reorientation of agriculture means in practice, how it responds to the needs of society, how it can be implemented through legislation and public policies.
- This book is a major contribution to the debate on future land development strategies, as well as helping to supporting land use decision making at all levels.

ISBN: 9781984681218 | Price: \$180 | Copyright: 2023 | Binding: Hardcover |

Publisher: 3G E-learning LLC



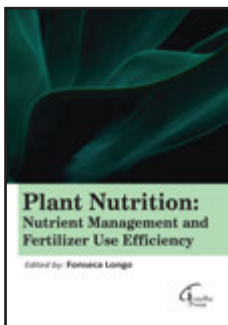
## Principles of Plant Science: Environmental Factors and Technology in Growing Plants

Editor: Alberto Balduzzi

Environmental factors such as light, temperature, and humidity play a crucial role in the growth and development of plants. Advances in technology, such as precision agriculture and controlled environment agriculture, enable growers to monitor and manipulate these factors to optimize plant growth and increase crop yields. This book explores the intricate relationship between environmental factors and advanced technologies to optimize plant growth and yield.

Print ISBN: 9781682519509 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Plant Nutrition: Nutrient Management and Fertilizer Use Efficiency

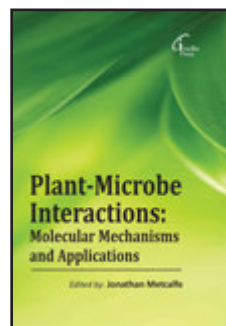
Editor: Fonseca Longo

Proper nutrient management is essential for maximizing crop productivity while minimizing environmental impact. By carefully balancing nutrient inputs, such as nitrogen, phosphorus, and potassium, farmers can enhance fertilizer use efficiency, reduce nutrient runoff, and protect water quality. Techniques like soil testing, crop nutrient monitoring, and precision application technologies aid in achieving optimal nutrient management. This

book focuses on effective strategies to manage nutrients and improve fertilizer usage, maximizing agricultural productivity while minimizing environmental impact.

Print ISBN: 9781682519516 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



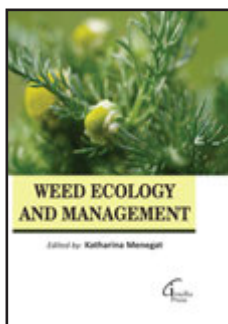
## Plant-Microbe Interactions: Molecular Mechanisms and Applications

Editor: Jonathan Metcalfe

Plants engage in complex interactions with microorganisms, including bacteria, fungi, and viruses. These interactions can be symbiotic, where both the plant and microbe benefit, or pathogenic, leading to plant diseases. Understanding and manipulating these interactions can have significant implications for agriculture, as beneficial microbes can enhance plant growth and disease resistance, while harmful microbes can devastate crops. This book deals with the complex interactions between plants and microorganisms, examining their mutualistic, pathogenic, and symbiotic relationships and their implications for plant health.

Print ISBN: 9781682519523 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Weed Ecology and Management

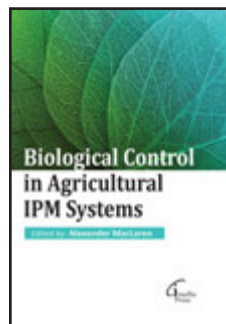
Editor: Katharina Menegat

Weeds compete with crops for resources, reducing yield and quality. Studying weed ecology helps us understand their life cycles, competitive strategies, and adaptation mechanisms. Effective weed management strategies, such as crop rotation, mechanical cultivation, and the use of herbicides, are crucial for minimizing weed pressure and maintaining crop productivity. This book examines the ecological aspects of weeds and offers insights into effective management strategies to

mitigate their negative impact on crop production.

Print ISBN: 9781682519530 | \$160 | 2024 | Hardcover |

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## Biological Control in Agricultural IPM Systems

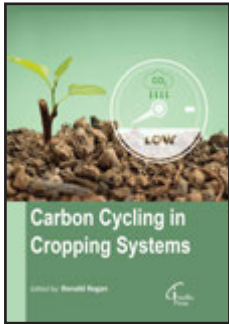
Editor: Alexander MacLaren

Integrated Pest Management (IPM) systems aim to control pests while minimizing reliance on synthetic pesticides. Biological control methods, such as the use of beneficial insects, nematodes, or microorganisms, provide a sustainable and environmentally friendly approach to pest management. These natural enemies can help suppress pest populations, reduce pesticide use, and maintain ecological balance in agricultural systems.

This book explores the use of natural enemies and beneficial organisms as an environmentally friendly approach to pest control in integrated pest management systems.

Print ISBN: 9781682519547 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Carbon Cycling in Cropping Systems

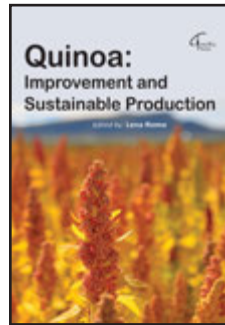
*Editor: Ronald Regan*

Carbon is essential to life on earth, with every living organism needing carbon to sustain life whether for physical structure, or as an energy source, or both. Carbon is quite mobile and cycles through the earth's atmosphere, oceans, biosphere and geosphere. Agricultural soils are among the largest terrestrial carbon (C) reservoirs and have great potential to mitigate atmospheric CO<sub>2</sub>. Understanding C cycling processes in cropping systems would improve mechanism understanding and

model predicting of the C fate in the agriculture ecosystem and is urgently needed to better assess the role of agriculture within the Earth system. This book addresses the importance of soil processes in the global carbon cycle.

**Print ISBN: 9781682518885 | \$160 | 2023 | Hardcover |**

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## Quinoa: Improvement and Sustainable Production

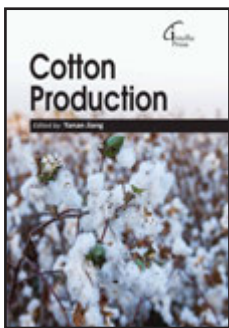
*Editor: Lena Romo*

Quinoa (*Chenopodium quinoa* Willd.) is an emerging world crop and nutritious source of quality plant protein, with approximately 16% protein on a dry basis. It is a stress-tolerant species with high biodiversity value that is being adapted to many areas of the world outside of its Andean origins. The primary commercial product of quinoa is polished whole seed, with a waste by-product of saponin-laden outer hull. This book focuses

in particular on the emerging role of quinoa in providing increased food security to smallholder farmers and communities throughout the world. The book provides key information on the sustainable production of these grains.

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## Cotton Production

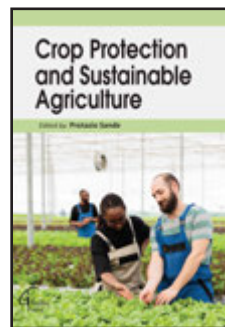
*Editor: Yanan Jiang*

Cotton is the most widespread profitable non-food crop in the world. Its production provides income for more than 250 million people worldwide and employs almost 7% of all labor in developing countries. Approximately half of all textiles are made of cotton. This book deals with a comprehensive overview of the role of cotton in the economy and cotton production around the world. The book provides the origin and evolution of cotton and its physiological basis and character

ization, and goes on to discuss methods of cultivation, biotic stresses, and harvesting and postharvest technology.

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## Crop Protection and Sustainable Agriculture

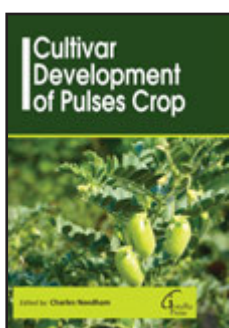
*Editor: Protazio Sande*

The challenge facing agriculture, particularly in developing countries, is to increase productivity without causing ecological damage. An important aspect of sustainable agriculture is the substitution of chemicals and capital with locally grown biological inputs and knowledge. The sustainable protection of crops has immense relevance for the security of the food supply chain, in a world of growing population and shrinking resources.

In the last decades, the increasing awareness of serious drawbacks coming from the use of pesticides stimulated studies aimed at identifying and developing new biological substances for crop protection, which are safer and more sustainable. This book covers the sustainable agricultural development, with a particular focus on crop protection.

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**Publisher: Intelliz Press LLC**



## Cultivar Development of Pulses Crop

*Editor: Charles Needham*

Classical breeding of many crops has been instrumental for ensuring food security by developing new varieties that are higher yielding, resistant to pests and diseases, drought-resistant or regionally adapted to different environments and growing conditions. With the development of pulses crop and the realization of their important roles in providing plant protein, disaster relief, and diet adjustments, the planting area and market demands of these crops are now increasing. The book features

an optimal balance between classical and modern tools and techniques related to plant breeding.

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## Organic Waste in Agriculture

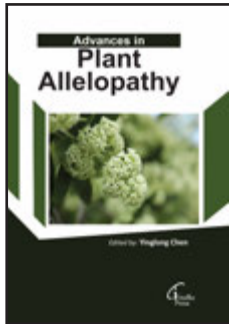
*Editor: Hanyi Cheng*

The decrease of organic matter content in agricultural soils is a problem of great concern to farmers around the world. Indeed, it lowers soil fertility that directly impairs agricultural crop production and affects a number of other soil properties like water retention capacity, aggregation and structure formation, soil mechanical strength or compactibility. This book highlights the significance of urban agricultural production, the technologies and methods for supplying organic materials to the farmland, recovering plant nutrients and energy,

and systems for sustaining farmlands. It pays particular attention to the effects of added organic matter on soil bulk density or porosity and consequently on plant available water.

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### Advances in Plant Allelopathy

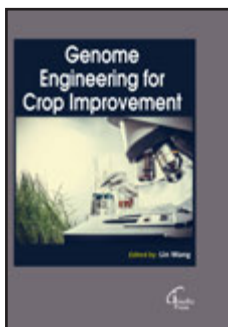
Editor: *Yinglong Chen*

Plant allelopathy is one of the modes of interaction between receptor and donor plants and may exert either positive effects (e.g., for agricultural management, such as weed control, crop protection, or crop re-establishment) or negative effects (e.g., autotoxicity, soil sickness, or biological invasion). To ensure sustainable agricultural development, it is important to exploit cultivation systems that take advantage of the stimulatory/inhibitory influence of allelopathic plants to regulate plant growth and development and to avoid allelopathic

autotoxicity. The book covers latest developments in allelopathy research with a special emphasis on its application in sustainable agriculture. Botanists, horticulturists, biologists, and agriculturists will find the book a good reference book.

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### Genome Engineering for Crop Improvement

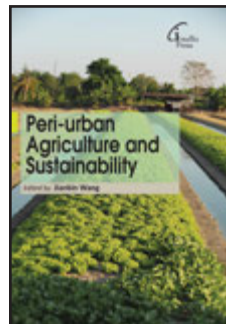
Editor: *Lin Wang*

Genome-editing has revolutionized biology. When coupled with a recently streamlined regulatory process by the U.S. Department of Agriculture and the potential to generate transgene-free varieties, genome-editing provides a new avenue for crop improvement. This book describes various genome-editing platforms available for plants, their delivery mechanisms, along with future prospects focused on enhancement of potato breeding using this technology. The book describes new

plant breeding strategies based on genome editing and discuss their impact on crop production, with an emphasis on recent advancements in genome editing-based plant improvements that could not be achieved by conventional breeding.

Print ISBN: 9781682518977 | \$160 | 2023 | Hardcover|

Publisher: Intelliz Press LLC



### Peri-urban Agriculture and Sustainability

Editor: *Jianbin Wang*

Urban agriculture has attracted the attention of academics, policy-makers, and practitioners alike as a potential measure to address the food needs of growing city populations and counter some of the negative environmental and economic effects of urbanization. Researchers, policy makers, and practitioners have struggled to make sense of peri-urban spaces. There is a general agreement on the role that peri-urban agriculture can play in achieving sustainable cities. This role is particularly crucial in the Alps, which are now the scene of

relevant changes, involving above all cities that are embracing metropolitan functions. The book focuses on the sustainable development of peri-urban agriculture and its relationship to food planning.

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Publisher: Intelliz Press LLC



### Agricultural Development Policy: Concepts and Experiences

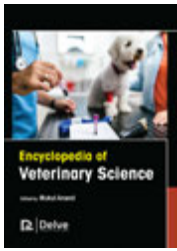
Editor: *Charles Oliveira*

Agricultural development is one of the most powerful tools to end extreme poverty, boost shared prosperity, and feed a projected 9.7 billion people by 2050. Growth in the agriculture sector is two to four times more effective in raising incomes among the poorest compared to other sectors. Governments throughout the developing world want to provide the poor with an adequate diet and to promote a more productive and efficient agricultural sector. This book takes a look on the

currently dominant paradigm of agricultural development policy from historical and comparative perspectives.

Print ISBN: 9781682518960 | \$160 | 2023 | Hardcover|

Publisher: Intelliz Press LLC



## Encyclopedia of Veterinary Science

**Mukul Anand**

Veterinary medicine is an art and science at the same time. Veterinary clinical practice requires a comprehensive understanding of numerous scholarly disciplines including math, biology, chemistry, and physical science, and prompting review in veterinary colleges. Notwithstanding a level of benevolence, veterinary medicine requires great communication skills, cooperative skills, the capacity to work with others, just as empathy for individuals and animals. This prologue to veterinary science gives a strong basis in this dynamic space for those concentrating on animal and veterinary research or getting ready for professions as veterinary specialists or experts. The paper outlines animal cell and tissue physiology, including sections devoted to individual body structures to allow for simpler understanding. The authors explore significant themes like nutrition, illness, and surgeries, cost review of systems, wellbeing, and professionalism. Throughout the paper, real-life models are incorporated with content material to offer pragmatic context, and both small and big animals are included to expose learners to different cases they might experience in the field.

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### About the Editor

Dr. Mukul Anand is working as an assistant Professor, Department of Veterinary Physiology, College of Veterinary Science & Animal Husbandry UP Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vishwavidyalaya Evam Go Anusanthan Sansthan, India. He has many years of experience in academics and teaching. He has published many books and research papers at national and international level.



## Diagnostic Tools in Veterinary Medicine

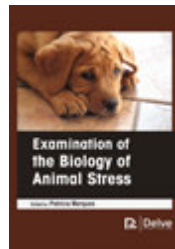
**Patricia Marques**

The Key Components of Veterinary Diagnostic System are Vet Laboratory, Vet Devices and Veterinary Diagnostic Test Kits. Traditionally, laboratory diagnostics for veterinary pathogens have relied on methods of detecting the pathogen by culture or antibodies, using varied techniques, such as neutralization, Enzyme-linked Immunosorbent Assay (ELISA), agar gel immunodiffusion, and complement fixation. Over the years, veterinarians have incorporated new molecular diagnostic techniques, such as Polymerase Chain Reaction (PCR) and Western blot, as well as improved older techniques by using recombinant antigens, monoclonal antibodies, and synthetic peptides. Despite the routine use of conventional diagnostic assays, new molecular techniques have enabled veterinarians to use new tools for rapid and specific diagnosis of animal disease in real-time. The globalization of trade in animals and animal products is a major driver for the improvement of the analytical and diagnostic quality of tests.

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### About the Editor

Patricia obtained her PhD from University College Dublin in 2010. Her interests are on Microbiology and Parasitology. She is currently working as a Postdoc at University of Maryland Baltimore, USA on Chlamydia infections



## Examination of the Biology of Animal Stress

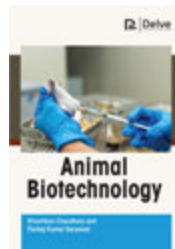
**Patricia Marques**

Stress in general is looked upon as a symptom resulting from exposure of an animal to a hostile environment. To some it is a nonspecific response to all environmental forces; others feel there are specific stress symptoms caused by specific environmental forces. The term stress is sometimes used to describe the hostile environment. Measuring the magnitude of stress often means measuring the degree of adaptation. The important function of livestock management is to avoid the detrimental adaptations and capitalize on the advantageous ones. Animal Welfare, Behavior and Stress are biological measures of stress. Animals can be used as models of PTSD, Depression and other diseases.

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## Animal Biotechnology

**Khushboo Chaudhary and Pankaj Kumar Saraswat**

Animal biotechnology has been used to produce genetically modified animals that synthesize therapeutic proteins, have improved growth rates or are resistant to disease. This book deals with introduction to biotechnology, scope of animal biotechnology, importance given to animal biotechnology, requirements of cloning vector, characteristics of a vector used in animal genetic engineering, gene transfer methodology, detect desired DNA, RNA and proteins by blotting techniques, basic procedure of hybridization, screening of DNA library, polymerase chain reaction and their types with applications, animal tissue culture technology and their uses, transgenic animal technology, gene therapy, bioethics and intellectual property rights.

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### About the Authors

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Dr. Pankaj Kumar Saraswat, graduate of R.B.S. College Bichpuri Agra University 1996, completed Masters and Doctorate degree in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004 respectively. Dr. Saraswat started his career as a lecturer in Soil Science in 2005 at H.N.B. Garhwal University Srinagar Garhwal and thereafter joined KVK Banasthali Vidyapith Tonk Rajasthan as Subject Matter Specialist (Soil Science). He has worked as a young scientist in SERCST New Delhi-funded research project and as P.I. in a DST-Rajasthan-funded research project during 2010-2015 and organized the 04 INSPIRE Internship Science camp under SEAT program of DST New Delhi for 10th pass top 1% students of CBSE & Rajasthan Board. In October 2015 Dr. Saraswat joined ICAR-RC for N.E.H. Region Umiam as Senior Scientist cum Head at KVK Tamenglong Manipur and was promoted to Principal Scientist cum Head in October 2020. He has worked as P.I. and Co-P.I. in 04 Institute and 01 NEC-Govt. of India-funded projects at KVK Tamenglong Manipur. He has 25 research papers, 07 project reports, 05 books, 02 training manuals, 30 popular articles to his credit in the field of agriculture and applied science. Presently He has been working as Principal Scientist cum Head at KVK-National Dairy Research Institute Karnal Haryana for technology assessment and demonstration for wider application with capacity development of farmers, farm women, rural youth, line departments and other stakeholders.

## Animal and Veterinary Science



### Illustrated Handbook of Bovine Science

- This book aims to provide an understanding of the present scenario, advances and challenges in bovine science.
- Presents a scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology.

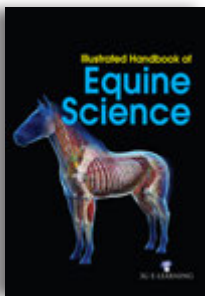
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### Illustrated Handbook of Sheep Farming

- This classic guide to sheep farming contains information on every step of the process, from breeding and rearing to wool production and beyond.
- The book covers business management, pasture growth and management, nutrition and feed management, reproductive management, disease management, genetic improvement, and animal welfare.

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### Illustrated Handbook of Equine Science

- Richly illustrated in full color, the book uses a logical, easy-to-follow outline to make learning simple, while addressing essential topics like care and feeding, training, development and reproduction, illness, and animal welfare.
- This book addresses many important gaps to enable students to understand how horses can learn to perform unwelcome behaviors and how to change those behaviors where appropriate.

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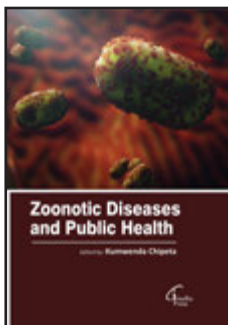
### Animal Behavior and Cognition

*Editor: Morhason-Bello*

The study of animal behavior and cognition provides insights into the mental processes and decision-making abilities of animals. Understanding how animals perceive and interact with their environment is essential for improving animal welfare, optimizing animal husbandry practices, and enhancing training and enrichment programs. This book investigates the intricate workings of animal behavior and cognition, shedding light on their complex social structures, decision-making processes, and learning abilities.

Print ISBN: 9781682519554 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



### Zoonotic Diseases and Public Health

*Editor: Kumwenda Chipeta*

Zoonotic diseases are infections that can be transmitted between animals and humans. Monitoring and controlling zoonotic diseases are crucial for public health, as they can have significant economic, social, and health impacts. Effective surveillance, prevention, and control measures, including vaccination, proper hygiene, and animal health monitoring, are essential for minimizing the risk of zoonotic disease outbreaks. This book highlights the interconnectedness between animals and humans, focusing on diseases that can be transmitted

between them and the crucial role of public health in preventing and managing such diseases.

Print ISBN: 9781682519561 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



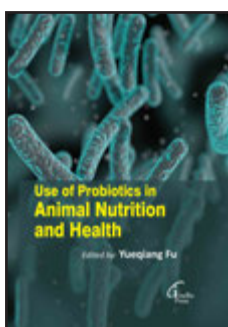
### Impact of Environmental Factors on Animal Health

*Editor: Davila-Williams*

Environmental factors such as temperature, humidity, air quality, and nutrition can have a profound impact on animal health and welfare. Proper management of these factors is essential for preventing diseases, reducing stress, and promoting optimal growth and production in livestock and companion animals. This book examines the influence of environmental factors on the health and well-being of animals, providing insights into effective management practices to ensure their optimal health.

Print ISBN: 9781682519578 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



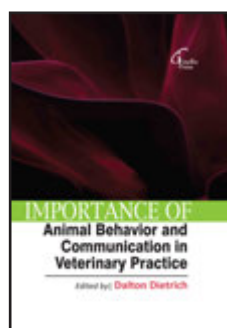
### Use of Probiotics in Animal Nutrition and Health

*Editor: Yueqiang Fu*

Probiotics, beneficial microorganisms, are increasingly used in animal nutrition to promote gut health, improve digestion, and enhance the immune system. Probiotics can help prevent or manage digestive disorders, reduce the need for antibiotics, and improve overall animal health and performance. This book explores the benefits of probiotics in promoting gut health, enhancing nutrient utilization, and improving overall animal health and performance.

**Print ISBN: 9781682519585 | \$160 | 2024 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Importance of Animal Behavior and Communication in Veterinary Practice

*Editor: Dalton Dietrich*

Animal behavior and communication are vital aspects of veterinary medicine. Understanding an animal's behavior can help veterinarians diagnose and treat conditions, manage pain and stress, and improve handling and husbandry techniques. Effective communication between veterinarians and animal owners is also crucial for providing optimal care and ensuring the well-being of animals. This book emphasizes the significance of understanding animal behavior and communication patterns

in veterinary medicine, facilitating accurate diagnosis, treatment, and care for animals.

**Print ISBN: 9781682519592 | \$160 | 2024 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Biotechnologies Applied to Animal Reproduction

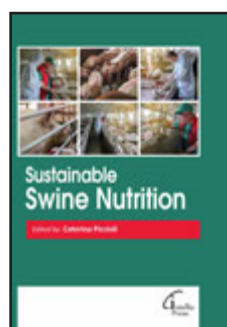
*Editor: Elena Bargagli*

Biotechnology has great impact on breed improvement, reproductive rate, and animal production. Various biotechnology methods are used in improving the breeding stock of animals. These include artificial insemination (AI), embryo transfer (ET), in-vitro fertilization (IVF), somatic cell nuclear transfer, and the emerging technology on somatic cell nuclear transfer. This book focuses on recent trends and new technologies used in the

management of reproduction in major farm animals.

**Print ISBN: 9781682519455 | \$160 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Sustainable Swine Nutrition

*Editor: Caterina Piccioli*

Modern swine nutrition programs improved the productivity, health, and welfare of pigs, with a concomitant decrease in the environmental footprint of each portion of produced. Going forward, even greater improvements will be necessary, as animal food consumption will increase globally given that citizens in developing countries will raise the demand for these foods. The book comprehensively covers the most recent advancements in sustainability to promote reduced pork

production costs and waste.

**Print ISBN: 9781682519462 | \$160 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



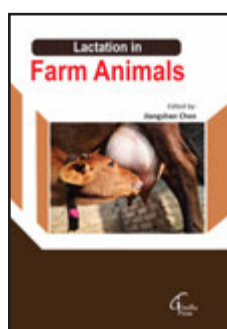
### Handbook of Bird Biology

*Editor: Sarah Baker*

The study of birds and aspects that relate to them is called ornithology, a branch of zoology. Humans have no other relationship with an animal that is as constant, varied, and enriching as our relationship with birds. They are everywhere and are conspicuous. They are highly mobile, sing, and display lavish color patterns and courtship displays. This book will serve as essential guide for birdwatchers, college students, and educators.

**Print ISBN: 9781682519479 | \$160 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Lactation in Farm Animals

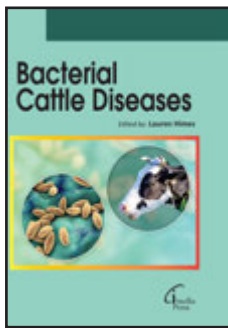
*Editor: Jiangshan Chen*

Lactation is the period of time that a mother secretes milk from her mammary glands. The lactation cycle is the period between one calving and the next. The cycle is split into phases; the early, mid lactation, late lactation and the dry period. Lactation can impose the greatest requirements for nutrients, several times the amounts required for maintenance. Even for meat type animals, lactation is a dominant factor in nutrient requirements. This book focuses on lactation in farm animals.

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**Publisher: Intelliz Press LLC**

## Animal and Veterinary Science



### Bacterial Cattle Diseases

*Editor: Lauren Himes*

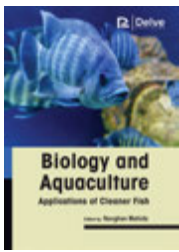
Bovine respiratory disease is the principal source of economic loss for the beef industry and a significant health problem in the dairy industry as well. The pathogenesis typically involves some combination of predisposing stress which compromises respiratory defense mechanisms and coincidental primary infection with one or more respiratory viruses. The aim of this book is to inform owners, veterinary professional, and others who are interested in Veterinary Science dealing with those bacterial

infectious diseases, which occur relatively frequently in dairy and beef cattle and focus on general principles for the prevention and control of these diseases, providing detailed information on each disease.

**Print ISBN: 9781682519493 | \$160 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**





## Biology and Aquaculture Applications of Cleaner Fish

Navghan Mahida

The control of parasites in fish farms has traditionally involved the use of pesticides, either as bath treatments or by oral administration. The search for other ways to control the incidence of parasites is now being intensified to improve fish quality, safer final product, and lower environmental impact. The addition of cleaner organisms as

biological control agents has broadened the perspective of rearing fish in a more environmentally friendly way. In the marine environment, the interspecific relationships between fish are ubiquitous and are commonly described as beneficial interactions where a smaller species (cleaners) remove parasites and infected tissue from the body surface, mouth, and gill chambers of other fish. Furthermore, in certain cases, the need to seek cleaning seems to go beyond the question of parasite removal; it is also about gaining physical contact and other health benefits. However, the inclusion of cleaner fishes to the farming system adds another organism to the production effort, whose biology is, in most cases, unknown to the industry. This raises another layer of challenges, not only in terms of rearing a novel species but also in terms of the welfare of the cleaners themselves. Therefore, this is a field that deserves further attention and research, to establish better welfare standards and lower disease outbreaks for farmed fish, both cleaners and clients. This book introduces important cleaner fishes that can reap benefits to the fish farming communities. The problems associated with freshwater aquaculture have been emphasized. The advancements in freshwater aquaculture and the present situation regarding the tools being used are explained. The impact of aquaculture on the environmental factors was explained in this book. The socio-economics of the cleaner fish aquaculture is explained in this book. This book serves as a handbook for the students across all the subject areas who are interested in either pursuing a career in aquaculture or research in similar fields.

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### About the Editor

Dr. Navghan Mahida is a self-motivated fisheries scholar by qualification with over five years of work experience, including over 9 training programs and work exposure, possesses qualities of leadership, good communication & interpersonal skills, to do attitude, and ability to quickly adapt new environments. He is working as Assistant Professor in the Department of Animal Husbandry, Dairy and Fisheries, Parul University Vadodara-Gujarat. He had completed B.F.Sc (Bachelor of Fisheries Science) in 2012 from CoF-Veraval, Junagadh Agricultural University, Junagadh. He pursued M.F.Sc in 2014 and Ph.D. in 2019 from the Central Institute of Fisheries Education-Mumbai. He started his career as Fisheries Officer in the Government of Gujarat in 2013 and further worked in MNC Shoreline Aquaculture as Assistant Manager. He specialized in fisheries economics with commendable academic records and achievements. He has published 25 research papers in national and international peer-reviewed journals so far, including conduction and participation in conferences, conventions, symposiums, seminars, training, etc. He had written souvenirs for the students' convention programs and three popular articles. He is a lifetime member of fisheries and life sciences, the European Journal of fisheries. He is also a reputed editor in the journal of fisheries and life sciences, PLOS ONE San Francisco, California, USA, Asian Journal of Economics, Extension and Social Science Thailand etc.



## An Economic Analysis of Tilapia Farming in Developing Countries

Navghan Mahida

Tilapia cultivation has been found to be an effective tool for many developing countries for socioeconomic development by addressing some important issues like food-security and employment generation. Adoption of tilapia cultivation has increased over the decades because of easy management practice and versatile farming technologies have been observed worldwide. Tilapia gain popularity because of their excellent breeding capabilities, flesh quality, high growth rate, disease resistance and survival capabilities under different farming systems and environmental conditions. Such features boosting up rapid growth of tilapia producing industries in an impactful way, by involving poor and non-poor farming communities in some of the developing countries of Asian, African and South American continents. However, some problems still exists with cultivation of different tilapia varieties; such as the inadequate availability of quality fry, deterioration in seed quality, limited technical knowledge among farming communities and poor marketing strategies especially in some of these developing countries depriving its commercial success to some extent. This book describes a present scenario regarding potentialities and difficulties of commercial adaptation of Tilapia cultivation under socio-economically constrained conditions.

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### About the Editor

Dr. Navghan Mahida is a self-motivated fisheries scholar by qualification with over five years of work experience, including over 9 training programs and work exposure, possesses qualities of leadership, good communication & interpersonal skills, to do attitude, and ability to quickly adapt new environments. He is working as Assistant Professor in the Department of Animal Husbandry, Dairy and Fisheries, Parul University Vadodara-Gujarat. He had completed B.F.Sc (Bachelor of Fisheries Science) in 2012 from CoF-Veraval, Junagadh Agricultural University, Junagadh. He pursued M.F.Sc in 2014 and Ph.D. in 2019 from the Central Institute of Fisheries Education-Mumbai. He started his career as Fisheries Officer in the Government of Gujarat in 2013 and further worked in MNC Shoreline Aquaculture as Assistant Manager. He specialized in fisheries economics with commendable academic records and achievements. He has published 25 research papers in national and international peer-reviewed journals so far, including conduction and participation in conferences, conventions, symposiums, seminars, training, etc. He had written souvenirs for the students' convention programs and three popular articles. He is a lifetime member of fisheries and life sciences, the European Journal of fisheries. He is also a reputed editor in the journal of fisheries and life sciences, PLOS ONE San Francisco, California, USA, Asian Journal of Economics, Extension and Social Science Thailand etc.



## The Differences between Intensive and Extensive Fish Farming

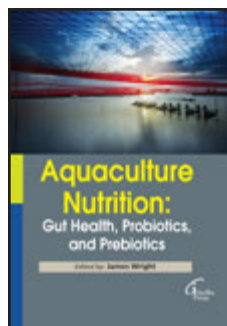
**Navghan Mahida**

The book encompasses the extensive fish farming system which is the least managed form of fish farming, in which little care is taken. This system involves large ponds measuring 1 to 5 ha in area with stocking density limited to only less than 5000 fishes/ha. No supplemental feeding or fertilisation is provided. Fish depends only on natural foods. Yield is poor (500 to 2 ton/ha), and survival is low. The labour and investment costs are low, and this system results in minimum income. An intensive fish farming system is the well-managed form of fish farming, in which all attempts are made to achieve maximum production of fish from a minimum quantity of water. This system involves small ponds/tanks/raceways with very high stocking density (10-50 fish/m<sup>3</sup> of water). Fish are fed wholly formulated feed. Proper management is undertaken to control water quality by use of aerators and nutrition by use of highly nutritious feed. The yield obtained ranges from 15 to 100 ton/ha or more. Although the cost of investment is high, the return from the yield of fish exceeds to ensure the profit. The financial management in the intensive and extensive fish farming must be monitored by the farmers to forecast the yields. This book provide an insight on mitigation measures to be planned in advanced to minimize the losses incurred due to uneven growth rates or natural calamities. This book provides an introduction to intensive and extensive fish farming and it can be used by the undergraduates, postgraduates and research students who wish to work in the fish farming sector.

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## Aquaculture Nutrition: Gut Health, Probiotics, and Prebiotics

**Editor: James Wright**

Aquaculture nutrition focuses on developing and optimizing feeding strategies to enhance the growth, health, and overall performance of farmed aquatic species. It involves studying the nutritional requirements of fish, shrimp, and other aquaculture organisms, formulating specialized feeds, and exploring alternative protein sources to ensure sustainable aquaculture practices. This book explores the relationship between nutrition, gut health, and the use of probiotics and prebiotics in aquaculture.

Print ISBN: 9781682519608 | \$160 | 2024 | Hardcover |

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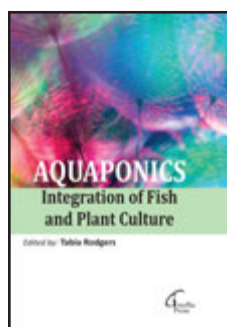
## Shellfish Aquaculture and the Environment

**Editor: Kirsten Jonathan**

Shellfish aquaculture plays a vital role in maintaining a healthy marine environment. By filtering water, shellfish such as oysters and mussels improve water quality and mitigate the impacts of excess nutrients and pollutants. Additionally, shellfish farming provides habitat for other marine species, contributes to shoreline protection, and supports local economies through sustainable seafood production. This book examines the impact of shellfish farming on the environment and explores sustainable practices in the industry

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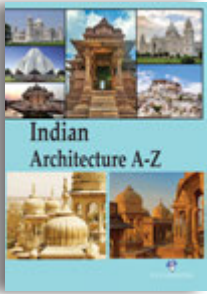
## Aquaponics: Integration of Fish and Plant Culture

**Editor: Tabia Rodgers**

Aquaponics is a sustainable farming method that combines aquaculture (fish farming) with hydroponics (growing plants in water). In this system, fish waste provides nutrients for plants, and the plants naturally filter and purify the water, which is then recirculated back to the fish tanks. Aquaponics offers a closed-loop system that maximizes resource efficiency, minimizes water usage, and allows for year-round cultivation of both fish and vegetables. This book explores the symbiotic relationship between fish and plants in a closed-loop system for sustainable food production.

Print ISBN: 9781682519622 | \$160 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Indian Architecture A-Z

- A comprehensive guide to the diverse and intricate architecture of India, from ancient times to modern day.
- It features detailed descriptions and stunning visuals of iconic structures like the Taj Mahal and the Khajuraho temples, as well as lesser-known gems.
- The book is an essential read for architecture enthusiasts and anyone interested in the rich cultural heritage of India.

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## Japanese Architecture A-Z

- A comprehensive guide to the rich and diverse architectural heritage of Japan.
- Covers everything from traditional wooden temples to contemporary skyscrapers, providing a fascinating overview of Japanese architecture from ancient times to the present day.
- With detailed descriptions and stunning photographs, it is a must-read for anyone interested in the art and culture of Japan.

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## European Architecture A-Z

- A comprehensive guide to the history and styles of European architecture.
- Features on key architects, buildings, and movements from ancient Greece to the present day.
- With informative text and beautiful illustrations, it is a valuable resource for students, architects, and enthusiasts alike.

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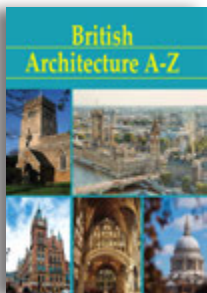


## American Architecture A-Z

- A comprehensive guidebook that covers the major styles and movements in American architecture.
- The book is organized alphabetically, making it easy for readers to find information about specific architects, buildings, and design concepts.
- With beautiful illustrations and informative text, this book is a must-read for anyone interested in the history of American architecture.

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## British Architecture A-Z

- A comprehensive guide to the history of architecture in Great Britain.
- It features several entries on the key architects, buildings, and styles that have shaped British architecture throughout the centuries.
- The book is a must-read for anyone interested in the rich architectural heritage of the United Kingdom.

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## Microeconomics

**Klevisa Kapo**

Microeconomics is a branch of economics that focuses on the study of individual economic agents such as consumers, firms, and markets, and how they make decisions regarding the allocation of scarce resources. This book explores the economic behavior of individuals, firms, and markets in detail. It delves into the theory of supply and demand, market structures, pricing, and production decisions made by businesses. Microeconomics serves as a foundation for understanding economic decision-making at the individual and firm level, and how they impact market outcomes. It is a valuable resource for students of economics, as well as anyone interested in understanding how markets work and how economic decisions are made.

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### About the Author

Klevisa Kapo is an experienced business researcher and projects' expert, specialized in providing professional independent services to start-ups, SMEs, NGOs and educational institutions. The catalog of the services she covers includes: market research, project proposal writing, project management, business plans' preparation, organization strategy design, data analysis, business and communication consultation and training. The main areas in focus are: entrepreneurship, innovation, sustainability, social entrepreneurship, tourism, culture, youth and education. She has an academic and professional background in Business and Organisation, Innovation, Leadership and Finance, provided by University of Ljubljana, School of Economics and Business, Global Innovation Management Institute, McCain Institute of Arizona State University, University of Tirana, Faculty of Economics. Klevisa is also contributing as a lecturer for the subjects of Business, Marketing, Business Communication and Economics.



## Introduction to Management

**Ali Arif**

Management involves planning, organizing, coordinating, and controlling resources to achieve specific goals and objectives in an efficient and effective manner. This textbook covers the fundamental principles and practices of management. The book explores the history of management, its evolution, and the various theories that have emerged over time. It delves into the functions of management, including planning, organizing, leading, and controlling, and discusses the skills and qualities required for effective management. The book provides readers with a comprehensive overview of the field of management, and serves as an essential resource for students, educators, and practitioners alike.

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### About the Author

Ali Arif is a marketing professional with over 10 years of experience in the field. He holds a Bachelor's degree in Marketing from the University Guelph and a Master's degree in Business Administration from the University of Windsor. Ali has a proven track record of success in developing and implementing marketing strategies that drive revenue growth for companies of all sizes. He has worked with both startups and established corporations, including Fortune 500 companies, in various industries such as technology, healthcare, and finance. Currently, Ali serves as the Director of Marketing at a fast-growing software company, where he leads a team of marketing professionals to drive brand awareness, generate leads, and increase customer engagement.



## Principles of Marketing

**Dr. John Ericson A. Policarpio**

Marketing is the process of creating, communicating, delivering, and exchanging offerings that have value for customers, clients, partners, and society at large. A comprehensive textbook that covers all the fundamental concepts and theories of marketing. The content coverage is presented in a clear and concise manner, making it easy for readers to understand and apply the concepts. The book is aimed at students of marketing, as well as professionals who want to refresh their knowledge and skills. It includes real-world cases and examples, which help readers to see the practical applications of marketing concepts.

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### About the Author

Dr. John Ericson A. Policarpio is currently the Program Chairperson of Tourism and Hospitality Management (THM) Department of PATTs College of Aeronautics. He is an Associate Professor, Academic Researcher, Book Author, a PACUCOA Accreditor, and a Hotelier. He is a graduate of Bachelor of Science in Tourism Major in Airline Operations in the same institution where he topped his class as the batch Cum Laude and Academic Excellence Awardee. He obtained his Master's Degree in Business Administration – Top Executive Program at the Pamantasan ng Lungsod ng Maynila (PLM). He recently finished his Doctor of Business Administration (DBA) degree at Olivarez College. He is an Internationally-Certified Event Educator, Event Manager, and Event Planner by the Asia Pacific Institute for Events Management (APIEM) in Leeds, United Kingdom. He is also a Certified Tourism Professional (CTP) recipient by the Institute of Tourism and Hospitality Professionals in London, United Kingdom. He is also a Distinguished Program Specialist for the Certification in Hospitality and Tourism Technology Service Professionals. A Hotelier by profession, Dr. Policarpio held numerous positions in the Accommodation Sector, particularly in the Sales & Marketing Department. He started as a Reservations Associate all the way to become the Head of Sales & Marketing Department for Five years.

Dr. Policarpio was a former Tourism Professor at Lyceum of the Philippines University-Manila (LPU-Manila), Canadian Tourism and Hospitality Institute (CTHI), St. Scholastica's College Manila (SSCM), and Pamantasan ng Lungsod ng Maynila (PLM). He is a former member of the Board of Trustees and the Chair of the Membership Committee of the Union of Filipino Tourism Educators (UFTE), Former National Adviser of the Union of Filipino Tourism Students (UFTS), appointed as South Manila Membership Ambassador of Philippine Association of Researchers for Tourism & Hospitality, Inc. (PARTH), and Senior Fellow of PATTs at the Asia Pacific Institute for Events Management (APIEM). Dr. Policarpio has judged tourism skills competitions and critiqued numerous research papers, business plan proposals, and tourism development plans from different universities and colleges in the Philippines. His research works focus on special topics in Events Management, Tourism Development, Special Topics in Tourism, and Tourism Marketing studies. Most of his works were presented and published in international conferences and research journals.



## Entrepreneurship

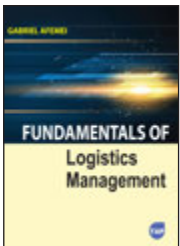
**Joao Heitor De Avila Santos**

Entrepreneurship is the process of creating, developing, and managing a new business venture with the goal of making a profit or fulfilling a need in the marketplace. This textbook explores the principles and practices of starting and running a successful business. It provides readers with a practical understanding of the entrepreneurial mindset and the skills necessary to launch a new venture. The author provides real-world examples and case studies of successful entrepreneurs and their ventures. The book also offers insights into the challenges and risks associated with starting and running a business, and provides strategies for overcoming them.

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### About the Author

João Heitor de Avila Santos, a distinguished expert in innovation, technology, and sustainability, brings his extensive experience in academia, consulting, and project management to his second book on consumer behavior. As an Associate Professor at UniLaSalle and a published author in the field of Innovation and Management of Technology, João's unique blend of expertise allows him to explore the intricacies of consumer behavior and its relationship with emerging technologies, sustainability, and social innovation. With this book he aims to make a global impact on understanding and shaping the future of consumer behavior.



## Fundamentals of Logistics Management

**Gabriel Afemei**

Logistics involve the integration of information, transportation, inventory, warehousing, material-handling and packaging. This book covers the principles, concepts, and practices involved in the field of logistics management. The book is designed to provide readers with a deep understanding of the logistics function in organizations and how it contributes to their success. With practical examples and case studies, this book is a must-read for students and professionals in logistics management.

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### About the Author

Gabriel is a graduate of the Technical University of Bucharest/Department of Transport Technology and graduated with a master's degree in International Logistics at the Bucharest Academy of Economic Studies in 2011. He has over 15 years of experience in all Supply Chain components in international environments. He received the European Logistics Association certification in 2018 (ELA is a federation of 30 National Logistics Associations, covering almost every country in Europe). In 2018 he graduated from the School of Advanced Studies in Journalism Bucharest. As a writer, he is the author and co-author of scientific books and didactic materials on Supply Chain Management and long-term development using new technologies. He loves to read, and in his free time he travels as much as possible.



## Human Resource Management

**Dr. John Ericson A. Policarpio**

Human resource management is a strategic and comprehensive approach that helps to manage people and the work culture and environment. This textbook delves into the theory and practice of managing people in organizations. It covers topics such as recruitment, selection, training, compensation, performance management, and employee relations. This book is an essential resource for students and professionals seeking to improve their understanding of human resource management.

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### About the Author

Dr. John Ericson A. Policarpio is currently the Program Chairperson of Tourism and Hospitality Management (THM) Department of PATTS College of Aeronautics. He is an Associate Professor, Academic Researcher, Book Author, a PACUCOA Accreditor, and a Hotelier. He is a graduate of Bachelor of Science in Tourism Major in Airline Operations in the same institution where he topped his class as the batch Cum Laude and Academic Excellence Awardee. He obtained his Master's Degree in Business Administration – Top Executive Program at the Pamantasan ng Lungsod ng Maynila (PLM). He recently finished his Doctor of Business Administration (DBA) degree at Olivarez College. He is an Internationally-Certified Event Educator, Event Manager, and Event Planner by the Asia Pacific Institute for Events Management (APIEM) in Leeds, United Kingdom. He is also a Certified Tourism Professional (CTP) recipient by the Institute of Tourism and Hospitality Professionals in London, United Kingdom. He is also a Distinguished Program Specialist for the Certification in Hospitality and Tourism Technology Service Professionals. A Hotelier by profession, Dr. Policarpio held numerous positions in the Accommodation Sector, particularly in the Sales & Marketing Department. He started as a Reservations Associate all the way to become the Head of Sales & Marketing Department for Five years.

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## Essentials of Supply Chain Management

**Gabriel Afemei**

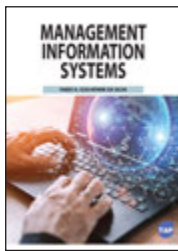
An essential part of supply-chain management is to understand the end customer within the marketing channel. This text covers the critical components of supply chain management. The book is written in a clear and concise language and provides readers with a solid understanding of supply chain management concepts, strategies, and best practices. It covers topics such as logistics, inventory management, and demand planning, procurement, and supplier management. With real-world examples, case studies, and practical tips, this book is an essential read for anyone interested in mastering the fundamentals of supply chain management.

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### About the Author

Gabriel is a graduate of the Technical University of Bucharest/Department of Transport Technology and graduated with a master's degree in International Logistics at the Bucharest Academy of Economic Studies in 2011. He has over 15 years of experience in all Supply Chain components in international environments. He received the European Logistics Association certification in 2018 (ELA is a federation of 30 National Logistics Associations, covering almost every country in Europe). In 2018 he graduated from the School of Advanced Studies in Journalism Bucharest. As a writer, he is the author and co-author of scientific books and didactic materials on Supply Chain Management and long-term development using new technologies. He loves to read, and in his free time he travels as much as possible.

# Business and Management



## Management Information Systems

**Fabio A. Guilherme da Silva**

The study of management information systems encompasses the interplay of people, processes, and technology within an organizational framework. A comprehensive guide to the design, implementation, and use of computer-based information systems in organizations. The book covers topics such as data management, networking, security, and decision-making support systems. It also explores emerging technologies like artificial intelligence and blockchain. Written for both students and professionals, this book provides practical insights and real-world examples of how information systems can improve organizational efficiency and effectiveness.

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### About the Author

Fabio Guilherme da Silva is an academic, analyst, and software developer with over 25 years of experience in the field. He obtained a Bachelor's in Mathematics (with a specialisation in Informatics) from the State University of Rio de Janeiro (UERJ) in 1994, and began working as a software developer and business analyst right away. He worked on projects for numerous companies in Brazil, including giants such as TV Globo, Halliburton, UBS, and the government of the State of Rio de Janeiro. In 2010, he obtained his Master's in Information Systems from the Federal University of the State of Rio de Janeiro (UNIRIO), and in 2015, a Doctorate in Computer Science from the Pontifical Catholic University of Rio de Janeiro (PUC-Rio). His research was dedicated to the use of artificial intelligence in games and interactive storytelling, and for both of these latest two degrees, he was awarded a full scholarship from the Brazilian government. During his doctoral degree, he worked as a researcher at ICAD/IGames/VisionLab at PUC-Rio, producing reports that helped win some game copyright infringement cases in court, including one for Zynga. In 2012, he was awarded an Honourable Mention (Interactivity) by the International Telecommunication Union (ITU) for his work. He then worked as a lecturer at PUC-Rio and FUCAPE Business School before leaving Brazil in 2018 to work for companies in Argentina, Germany, the USA, and the UAE. He currently lives in Portugal where he works as a researcher and assistant professor at the European University of Lisbon, focusing his research and teaching on Artificial Intelligence, Games, and Programming Languages. In addition to his pursuits in Computer Science and IT, Fabio also holds a diploma in International Relations and is fluent in eight languages. In his free time, he enjoys travelling, sports and playing music, having already toured and played in multiple countries in Europe and the Americas.



## International Business Management

**Rexcel Lagare**

International Business Management offers dynamic opportunities. This text deals with the theories, concepts, and practical strategies that are necessary for success in the global marketplace. It covers topics such as international trade, cultural differences, global marketing, and multinational management. The book offers insights into the challenges faced by businesses operating across borders and provides practical advice for addressing these challenges. Readers will gain a deep understanding of the key concepts and strategies used in international business management and learn how to apply them in real-world situations. The book is an indispensable tool for anyone seeking to build a successful career in today's global business environment.

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### About the Author

Rex is an MBA graduate from Arizona State University's Thunderbird School of Global Management, ranked No. 1 in the world for international trade by the QS International Trade Rankings, ahead of Cambridge, Harvard, and Stanford. Arizona State University ranked No. 1 as the "Most Innovative School" in the nation by U.S. News & World Report for eight years in succession. Rex graduated magna cum laude with a bachelor's degree in accounting from the University of San Carlos in the Philippines. Spanning over a decade of experience in finance, supply chain & operations projects with Fortune 500 clients and Business World's Top 1000 Corporations, as well as with startup and midsize companies, Rexcel Lagare is proficient in guiding clients enhance their business performance in his role as a management consultant.



## Management Theory and Practice

**Dr. John Ericson A. Policarpio**

People's needs are the decisive factor in achieving organizational effectiveness, as per the human relations approach to management. This book covers the fundamental principles, theories, and practices of modern management. The book explores various topics such as organizational behavior, strategic planning, leadership, communication, and decision-making. It offers practical insights and case studies to help readers develop their management skills and apply them in real-world scenarios. Whether you are a student, aspiring manager, or experienced executive, this book is an essential resource for mastering the art and science of management.

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### About the Author

Dr. John Ericson A. Policarpio is currently the Program Chairperson of Tourism and Hospitality Management (THM) Department of PATTS College of Aeronautics. He is an Associate Professor, Academic Researcher, Book Author, a PACUCOA Accreditor, and a Hotelier. He is a graduate of Bachelor of Science in Tourism Major in Airline Operations in the same institution where he topped his class as the batch Cum Laude and Academic Excellence Awardee. He obtained his Master's Degree in Business Administration – Top Executive Program at the Pamantasan ng Lungsod ng Maynila (PLM). He recently finished his Doctor of Business Administration (DBA) degree at Olivarez College. He is an Internationally-Certified Event Educator, Event Manager, and Event Planner by the Asia Pacific Institute for Events Management (APIEM) in Leeds, United Kingdom. He is also a Certified Tourism Professional (CTP) recipient by the Institute of Tourism and Hospitality Professionals in London, United Kingdom. He is also a Distinguished Program Specialist for the Certification in Hospitality and Tourism Technology Service Professionals. A Hotelier by profession, Dr. Policarpio held numerous positions in the Accommodation Sector, particularly in the Sales & Marketing Department. He started as a Reservations Associate all the way to become the Head of Sales & Marketing Department for Five years. Dr. Policarpio was a former Tourism Professor at Lyceum of the Philippines University-Manila (LPU-Manila), Canadian Tourism and Hospitality Institute (CTHI), St. Scholastica's College Manila (SSCM), and Pamantasan ng Lungsod ng Maynila (PLM). He is a former member of the Board of Trustees and the Chair of the Membership Committee of the Union of Filipino Tourism Educators (UFTE), Former National Adviser of the Union of Filipino Tourism Students (UFTS), appointed as South Manila Membership Ambassador of Philippine Association of Researchers for Tourism & Hospitality, Inc. (PARTH), and Senior Fellow of PATTS at the Asia Pacific Institute for Events Management (APIEM). Dr. Policarpio has judged tourism skills competitions and critiqued numerous research papers, business plan proposals, and tourism development plans from different universities and colleges in the Philippines. His research works focus on special topics in Events Management, Tourism Development, Special Topics in Tourism, and Tourism Marketing studies. Most of his works were presented and published in international conferences and research journals.



## Training and Development

**Dr. Shraddha Wilfred**

Training and development initiatives enhance job performance through educational activities within an organization. This text is a comprehensive guide for businesses and organizations seeking to improve the skills and knowledge of their employees. From designing effective training programs to evaluating their impact, this book covers all aspects of employee development. It also explores the latest trends and technologies in training and development, including e-learning and microlearning. Whether you are an HR professional or a business owner, this textbook is an essential resource for maximizing the potential of your workforce and staying ahead of the competition.

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### About the Author

Shraddha is a passionate international educator who has over 13 years of experience in value driven roles as Leader of Business Institutions, Corporate Trainer, Business Consultant, and Curriculum developer. An astute, result oriented professional, Shraddha has been dedicatedly delivering dynamic, challenging, inspiring, and engaging educational experiences at universities, colleges, and corporations in Canada, India, South Africa, United States, Oman, and Pakistan. Shraddha's blend of industry experience and academic theory combined with over a decade of international experience allows her to view problems from both the academic and industry perspective finding practical and innovative solutions. Shraddha has worked on Equi-City Project, funded by the European Union, which aims to ensure equitable provision of municipal services and to promote diversity within and capacity development of local government organizations. She has chaired 2 international conferences and is on the advisory/editorial board of national & international conferences/journals. She is a research enthusiast and has published more than 15 papers in international, national journals & conference proceedings. Moreover, Shraddha loves nature and is a staunch follower of the 4 R's reduce-reuse-recycle-rethink.



## Digital Marketing

**Ali Arif**

Digital marketing uses online platforms like email, social media, and mobile marketing to promote and sell products or services to potential customers. This text is an informative guide for anyone looking to expand their knowledge of online marketing. The book covers topics such as social media, email marketing, content marketing, SEO, and more. With practical advice and real-life case studies, readers can apply the strategies outlined in the book to their own digital marketing campaigns. Whether you're a beginner or an experienced marketer, this book offers insights and tips that can help you succeed in the digital space.

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### About the Author

Ali Arif is a marketing professional with over 10 years of experience in the field. He holds a Bachelor's degree in Marketing from the University Guelph and a Master's degree in Business Administration from the University of Windsor. Ali has a proven track record of success in developing and implementing marketing strategies that drive revenue growth for companies of all sizes. He has worked with both startups and established corporations, including Fortune 500 companies, in various industries such as technology, healthcare, and finance. Currently, Ali serves as the Director of Marketing at a fast-growing software company, where he leads a team of marketing professionals to drive brand awareness, generate leads, and increase customer engagement.



## Services Marketing and Customer Relationship Management

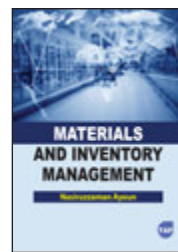
**Dinesh Kumar**

CRM enables businesses to build lasting relationships with both new and existing customers, while optimizing corporate efficiency. This book explores the key concepts of customer relationship management and provides practical tools and techniques for managing customer relationships. It also discusses the importance of effective service delivery and how it can be used to build strong customer relationships. With real-world cases and examples, this book is an essential resource for anyone interested in the field of services marketing and customer relationship management.

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### About the Author

Dinesh Kumar is an accomplished Professor, author, and trainer with over 25 years of experience in the field of Marketing and Management. He holds a Ph.D. in Marketing, an MBA with a major in Marketing, an MA in English, and a BA Honours in English. Dinesh Kumar has taught at several management institutes in India and has been a visiting Professor at the Institute of Professional Education and Research (IPER), Bhopal, since July 2022. He has also been involved in CAT teaching for 14 years. He has authored five international books on Marketing, including Marketing in the Digital Era, Rural Marketing: Challenges and Opportunities, The Connected Consumer, Consumer Behaviour, and Marketing Channels. Oxford University Press has published Dinesh Kumar's book on Marketing Channels, and his other works have been published by reputed publishers such as Sage New Delhi and Business Expert Press New York. Dinesh Kumar's achievements also include being the Director of Mastermind Consultants, Chandigarh, teaching and training MBA-CAT aspirants. With his deep theoretical and practical knowledge of Marketing and Management, Dinesh Kumar continues to inspire aspiring Marketing professionals.



## Materials and Inventory Management

**Nasiruzzaman Ayoun**

This book offers a detailed analysis of the concepts and practices involved in managing materials and inventory. The book covers topics such as demand forecasting, inventory control, procurement, logistics, and supply chain management. It also delves into the latest technologies and tools used in the field, such as enterprise resource planning (ERP) systems and radio-frequency identification (RFID) technology. This book is a must-read for students, professionals, and researchers interested in the field of materials and inventory management.

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### About the Author

Nasiruzzaman is a highly skilled professional with over 14 years of experience in software development and IT management. Based in Bangladesh, he has made significant contributions to the technology industry, particularly in enterprise-level application development, software engineering, and project management. Starting as a Software Engineer in 2007, Nasiruzzaman rose to become a Director of Engineering in a prominent software company, earning recognition for his leadership, technical expertise, and strong work ethic. He has managed teams of software engineers and developers across different time zones, delivering successful software projects within budget and on time. Nasiruzzaman holds a Bachelor's degree in Computer Science and Engineering from Rajshahi University of Engineering and Technology. He is also a certified Project Management Professional (PMP) and has completed various other certifications in software engineering and management. Nasiruzzaman is known for his exceptional communication skills, ability to build and maintain relationships, and commitment to quality. He has successfully delivered software projects in various domains, including healthcare, finance, and e-commerce, for clients from all over the world.

# Business and Management



## Product Management

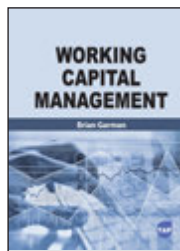
**Mahmood Alsaati**

Product management gauges changing customer needs. This book is an indispensable guide for anyone looking to develop, launch, and manage successful products in today's fast-paced business landscape. Readers will learn how to conduct market research, build a product roadmap, prioritize features, create effective product teams, and measure success through data-driven analysis. Whether you're a seasoned product manager or just starting out, this book is an essential resource for achieving product excellence and staying ahead of the competition.

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### About the Author

Mahmood Alsaati is an experienced business development and marketing professional with over 10 years of experience in the computer software and IT industries. Currently serving as the Director of Business Development at OplentSoft, Mahmood is responsible for developing and executing business strategies, managing sales and marketing activities, and identifying new business opportunities. Prior to his current role, Mahmood held various business development and marketing positions at leading technology companies, including Microsoft and Oracle. Mahmood is a results-oriented professional who is passionate about leveraging technology to solve business challenges. He holds a Bachelor's degree in Computer Science from the University of Bahrain and a Master's degree in Business Administration from the University of Hull in the UK. Mahmood is also a certified Project Management Professional (PMP) and has completed various courses in business development and marketing.



## Working Capital Management

**Brian Garman**

This book explores key concepts such as cash flow, inventory management, and accounts receivable and payable. The book provides practical tips and strategies for optimizing working capital and minimizing financial risk. Whether you're a business owner, manager, or financial professional, this book is an invaluable resource for maximizing profitability and ensuring financial stability.

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### About the Author

Brian Garman is a seasoned software developer with over 20 years of experience in the field. He currently works as a Technical Director at a software development firm in South Africa. Brian is well-versed in programming languages such as C++, Python, and Java, and has a strong interest in machine learning and artificial intelligence. Throughout his career, Brian has developed a reputation as a reliable problem-solver, contributing to a variety of projects from large-scale enterprise applications to research and development initiatives. He is an active member of the software development community, participating in industry events and sharing his expertise with others through mentoring and training. Brian's innovative solutions have had a positive impact on many industries, making him a highly respected and accomplished software developer. His passion for learning and problem-solving continues to drive him forward in pushing the boundaries of what is possible in software development.



## Managing Change in Organisations

**Rushatay Feroze**

Organizational change is necessary for companies to succeed and grow, and change management drives the successful adoption and usage of change within the business. This book offers a step-by-step approach to managing change, with real-world examples and case studies to illustrate key concepts. It covers various aspects of change management, including planning, communication, resistance, and evaluation. Whether you are leading a small team or a large organization, this book provides valuable insights and tools to help you manage change effectively.

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### About the Author

Rushatay Feroze is a driven and accomplished PhD candidate in Business Management at Xi'an Jiaotong University of China. She has dedicated her academic career to the study of organizational behavior, leadership, and strategy. Her research focuses on how leaders can effectively motivate and manage their teams to achieve superior performance and drive organizational success. In her upcoming book, Rushatay seeks to provide a practical guide to change management that draws upon her research and consulting experience. Rushatay has received numerous awards and recognitions for her academic achievements and her passion for teaching and mentoring has also earned her accolades from her students and colleagues. In addition to her academic pursuits, Rushatay is an active member of her community and enjoys volunteering for various social causes. She believes in giving back to society and uses her skills and knowledge to make a positive impact on the world.



## Small Business Management

**Mahmood Alsaati**

This book is a comprehensive guide to running a successful small business. It covers topics such as business planning, financial management, marketing, and human resources management. The book is designed to help small business owners navigate the challenges of entrepreneurship and develop effective strategies to grow their businesses. Whether you are a seasoned entrepreneur or just starting out, this book is an essential resource for anyone looking to succeed in the world of small business management.

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### About the Author

Mahmood Alsaati is an experienced business development and marketing professional with over 10 years of experience in the computer software and IT industries. Currently serving as the Director of Business Development at OplentSoft, Mahmood is responsible for developing and executing business strategies, managing sales and marketing activities, and identifying new business opportunities. Prior to his current role, Mahmood held various business development and marketing positions at leading technology companies, including Microsoft and Oracle. Mahmood is a results-oriented professional who is passionate about leveraging technology to solve business challenges. He holds a Bachelor's degree in Computer Science from the University of Bahrain and a Master's degree in Business Administration from the University of Hull in the UK. Mahmood is also a certified Project Management Professional (PMP) and has completed various courses in business development and marketing.





## Investment Management

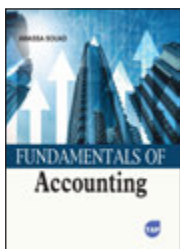
**Nasiruzzaman Ayoun**

Investment managers are often faced with complex situations that require a thorough understanding of both quantitative tools and qualitative assessments in order to make informed decisions. This book covers a broad range of topics, including active investment strategies in both public and private markets, as well as custom solutions tailored to meet the needs of institutional and individual investors. By exploring these topics, the book aims to help readers develop a deeper understanding of the principles and practices involved in effective investment management, and to provide them with the tools and knowledge necessary to make informed decisions about their investments.

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### About the Author

Nasiruzzaman is a highly skilled professional with over 14 years of experience in software development and IT management. Based in Bangladesh, he has made significant contributions to the technology industry, particularly in enterprise-level application development, software engineering, and project management. Starting as a Software Engineer in 2007, Nasiruzzaman rose to become a Director of Engineering in a prominent software company, earning recognition for his leadership, technical expertise, and strong work ethic. He has managed teams of software engineers and developers across different time zones, delivering successful software projects within budget and on time. Nasiruzzaman holds a Bachelor's degree in Computer Science and Engineering from Rajshahi University of Engineering and Technology. He is also a certified Project Management Professional (PMP) and has completed various other certifications in software engineering and management. Nasiruzzaman is known for his exceptional communication skills, ability to build and maintain relationships, and commitment to quality. He has successfully delivered software projects in various domains, including healthcare, finance, and e-commerce, for clients from all over the world.



## Fundamentals of Accounting

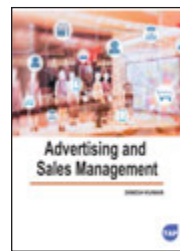
**Awassa Souad**

This text introduces the fundamental principles of accounting. It covers topics such as financial statements, balance sheets, income statements, cash flow statements, and accounting cycles. The book is written to provide a solid foundation for students and professionals who wish to learn the basics of accounting. This book is an essential resource for understanding the principles and practices of accounting.

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### About the Author

Awassa Souad is an accomplished economist with over ten years of experience in the field. She holds a Master's degree in Economics from the Faculté des sciences économiques et de gestion Tunis Manar, where she gained a deep understanding of economic theory and analysis. Throughout her career, Awassa has worked with a variety of clients, including government agencies, non-profit organizations, and private sector companies. She has a proven track record of developing effective economic policies and strategies that help her clients achieve their goals. Awassa is well-versed in a wide range of economic models and methodologies. She has particular expertise in the areas of microeconomics, macroeconomics, and econometrics. She has also conducted extensive research in the field of development economics, focusing on issues related to poverty reduction and economic growth. In addition to her technical skills, Awassa is a strong communicator and collaborator. She enjoys working with others to develop solutions that are both effective and feasible. She is also committed to staying up-to-date with the latest trends and developments in the field of economics, and is always looking for ways to improve her skills and knowledge. Overall, Awassa's expertise, experience, and commitment to excellence make her a valuable asset to any organization or project in need of sound economic analysis and advice.



## Advertising and Sales Management

**Dinesh Kumar**

This book focuses on the key principles and strategies for developing effective advertising and sales campaigns. It covers topics such as market research, target audience identification, message creation, media planning, sales techniques, and sales team management. The book is designed to help students and professionals in the field of marketing to understand the role of advertising and sales in achieving business goals. With practical examples and case studies, the book provides insights into the latest trends and best practices in advertising and sales management.

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### About the Author

Dinesh Kumar is an accomplished Professor, author, and trainer with over 25 years of experience in the field of Marketing and Management. He holds a Ph.D. in Marketing, an MBA with a major in Marketing, an MA in English, and a BA Honours in English. Dinesh Kumar has taught at several management institutes in India and has been a visiting Professor at the Institute of Professional Education and Research (IPER), Bhopal, since July 2022. He has also been involved in CAT teaching for 14 years. He has authored five international books on Marketing, including *Marketing in the Digital Era*, *Rural Marketing: Challenges and Opportunities*, *The Connected Consumer*, *Consumer Behaviour*, and *Marketing Channels*. Oxford University Press has published Dinesh Kumar's book on *Marketing Channels*, and his other works have been published by reputed publishers such as Sage New Delhi and Business Expert Press New York. Dinesh Kumar's achievements also include being the Director of Mastermind Consultants, Chandigarh, teaching and training MBA-CAT aspirants. With his deep theoretical and practical knowledge of Marketing and Management, Dinesh Kumar continues to inspire aspiring Marketing professionals.



## Project Management

**Abhishek Sharma**

This book offers a comprehensive introduction to the principles, techniques, and practices of managing projects effectively. The book covers topics such as project planning, scheduling, budgeting, risk management, and team management. It is written to provide readers with a practical guide to successful project management, regardless of the size or complexity of the project. This book is an essential resource for anyone involved in project management.

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### About the Author

Abhishek is a Global MBA graduate from Bologna Business School and a certified Project Management professional with an experience of more than 12 years in Project Management, ESG, sustainability, and corporate social responsibility across both the for-profit and nonprofit sectors and multiple public policy roles. He has considerable experience developing and implementing carbon management strategies, responsible sourcing programs, and community and stakeholder engagement initiatives. He is a passionate and vocal advocate of moving ESG issues from being a footnote in C-level discussions to the forefront of business strategy and Project management planning. He has also spent significant time managing large Projects. In the past, he has held multiple influential senior leadership roles as a Senior Project Manager and is an advisor to some Multinational organizations.

## Business and Management



### Financial Accounting

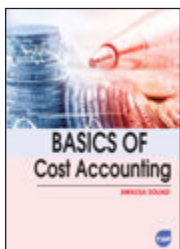
**Dr. Risha Khandelwal**

This comprehensive text provides an in-depth understanding of the principles and practices of financial accounting. It covers a wide range of topics, including financial statements, accounting cycles, and accounting for assets, liabilities, and equity. The book is written to provide students and professionals with the knowledge and skills needed to prepare financial statements, analyze financial data, and make informed business decisions. This book is an essential text for mastering the principles and practices of financial accounting.

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#### About the Author

Dr. Risha Khandelwal has expertise in finance and global business as an academician and researcher. She has been teaching and conducting research for more than six years. She has held positions at JECRC University in Jaipur and GL A University in Mathura. She received the UGC fellowship after passing the NET-JRF. She has written case studies, book chapters, and research papers that have been indexed by Google Scholar and SCOPUS. She is proficient in utilizing econometrics to analyze secondary data. She is currently a freelancer, helping academics with their research projects.



### Basics of Cost Accounting

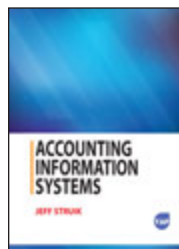
**Awassa Souad**

Cost accounting is a branch of accounting that involves the identification, measurement, and analysis of the costs of products, services, or operations, with the aim of providing information for managerial decision-making, control, and planning purposes. This book provides a comprehensive introduction to the fundamental concepts and practices of cost accounting, including cost behavior, cost-volume-profit analysis, job costing, process costing, and activity-based costing. The book is designed to help students and professionals in the field of accounting understand how to measure and manage costs effectively. This book is an essential resource for anyone looking to enhance their knowledge and skills in cost accounting.

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#### About the Author

Awassa Souad is an accomplished economist with over ten years of experience in the field. She holds a Master's degree in Economics from the Faculté des sciences économiques et de gestion Tunis Manar, where she gained a deep understanding of economic theory and analysis. Throughout her career, Awassa has worked with a variety of clients, including government agencies, non-profit organizations, and private sector companies. She has a proven track record of developing effective economic policies and strategies that help her clients achieve their goals. Awassa is well-versed in a wide range of economic models and methodologies. She has particular expertise in the areas of microeconomics, macroeconomics, and econometrics. She has also conducted extensive research in the field of development economics, focusing on issues related to poverty reduction and economic growth. In addition to her technical skills, Awassa is a strong communicator and collaborator. She enjoys working with others to develop solutions that are both effective and feasible. She is also committed to staying up-to-date with the latest trends and developments in the field of economics, and is always looking for ways to improve her skills and knowledge. Overall, Awassa's expertise, experience, and commitment to excellence make her a valuable asset to any organization or project in need of sound economic analysis and advice.



### Accounting Information Systems

**Jeff Struik**

This book explores the relationship between accounting and information technology. It provides an introduction to the fundamental concepts of accounting information systems, including database management, internal controls, and business processes. The book also covers the role of information systems in decision-making, financial reporting, and auditing. Whether you are a student of accounting, an accounting professional, or a business owner, this book provides valuable insights into the integration of technology and accounting.

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#### About the Author

Jeff is a seasoned cybersecurity professional with a decade of experience working in the defense industry. He has a Doctor of Computer Science with a concentration in cybersecurity, and holds several industry certifications including CISSP, PenTest+, and Network+. Throughout his career, Jeff has developed a passion for conducting research and development pertaining to cybersecurity tools. He thrives on staying at the forefront of the industry, constantly seeking out new and innovative solutions to keep networks secure. Despite his impressive credentials and extensive experience, Jeff remains dedicated to sharing his knowledge and expertise with others. He has a deep-seated love of teaching and takes great joy in helping others to better understand the importance of cybersecurity. Whether he is working with colleagues in the industry or sharing his insights with students and other learners, Jeff is a true cybersecurity professional who is committed to advancing the field and making the digital world a safer place for all.



### Fundamentals of TQM

**Gabriel Afemei**

This book provides an introduction to Total Quality Management (TQM) and its principles. TQM is a management approach that focuses on continuous improvement of processes and products to enhance customer satisfaction. The book covers topics including TQM implementation, quality control, team-building, and customer service. It is an essential guide for professionals seeking to improve their organization's quality management system and increase customer loyalty.

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#### About the Author

Gabriel is a graduate of the Technical University of Bucharest/Department of Transport Technology and graduated with a master's degree in International Logistics at the Bucharest Academy of Economic Studies in 2011. He has over 15 years of experience in all Supply Chain components in international environments. He received the European Logistics Association certification in 2018 (ELA is a federation of 30 National Logistics Associations, covering almost every country in Europe). In 2018 he graduated from the School of Advanced Studies in Journalism Bucharest. As a writer, he is the author and co-author of scientific books and didactic materials on Supply Chain Management and long-term development using new technologies. He loves to read, and in his free time he travels as much as possible.



## Macroeconomics

**Klevisa Kapo**

Macroeconomics is the branch of economics that studies the behavior and performance of an economy as a whole, focusing on topics such as inflation, unemployment, economic growth, and monetary and fiscal policies. This book provides a comprehensive study of the principles and methods underlying the field of macroeconomics. It covers a wide range of topics, including economic growth, inflation, unemployment, fiscal policy, monetary policy, international trade, and exchange rates. It is an essential textbook for students of economics, as well as a valuable resource for policymakers, business leaders, and anyone interested in understanding the workings of the economy at a national or global level. The book is written in a clear and concise manner, with numerous examples, graphs, and illustrations to aid understanding.

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### About the Author

*Klevisa Kapo is an experienced business researcher and projects' expert, specialized in providing professional independent services to start-ups, SMEs, NGOs and educational institutions. The catalog of the services she covers includes: market research, project proposal writing, project management, business plans' preparation, organization strategy design, data analysis, business and communication consultation and training. The main areas in focus are: entrepreneurship, innovation, sustainability, social entrepreneurship, tourism, culture, youth and education. She has an academic and professional background in Business and Organisation, Innovation, Leadership and Finance, provided by University of Ljubljana, School of Economics and Business, Global Innovation Management Institute, McCain Institute of Arizona State University, University of Tirana, Faculty of Economics. Klevisa is also contributing as a lecturer for the subjects of Business, Marketing, Business Communication and Economics.*



## Consumer Behavior

**Joao Heitor De Avila Santos**

Consumer behavior refers to the actions and decisions made by individuals and households when purchasing goods and services. This book explores how consumers make decisions when purchasing goods or services. It delves into the psychological, social, and cultural factors that influence consumer behavior, such as perception, learning, motivation, and attitudes. It presents real-life case studies and examples to illustrate how different factors can affect consumer decision-making. The book provides insights into how businesses can better understand and influence consumer behavior to improve their marketing efforts and achieve success.

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### About the Author

*João Heitor de Avila Santos, a distinguished expert in innovation, technology, and sustainability, brings his extensive experience in academia, consulting, and project management to his second book on consumer behavior. As an Associate Professor at UniLaSalle and a published author in the field of Innovation and Management of Technology, João's unique blend of expertise allows him to explore the intricacies of consumer behavior and its relationship with emerging technologies, sustainability, and social innovation. With this book he aims to make a global impact on understanding and shaping the future of consumer behavior.*



## Strategic Planning and Policy

**Gabriel Afemei**

The strategy is the best plan opted from a number of plans, in order to achieve the organizational goals and objectives. This book explores the fundamental principles and practices of strategic planning and policy development. It offers practical insights and tools that can help organizations to develop effective strategies and policies that align with their goals and objectives. With its clear and concise writing style and real-world examples, this book is an invaluable resource for anyone involved in strategic planning and policy development.

Copyright 2024 | PB 9781774697245 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

*Gabriel is a graduate of the Technical University of Bucharest/Department of Transport Technology and graduated with a master's degree in International Logistics at the Bucharest Academy of Economic Studies in 2011. He has over 15 years of experience in all Supply Chain components in international environments. He received the European Logistics Association certification in 2018 (ELA is a federation of 30 National Logistics Associations, covering almost every country in Europe). In 2018 he graduated from the School of Advanced Studies in Journalism Bucharest. As a writer, he is the author and co-author of scientific books and didactic materials on Supply Chain Management and long-term development using new technologies. He loves to read, and in his free time he travels as much as possible.*



## Organization Theory and Behaviour

**Rexcel Lagare**

Organizational behavior concepts and theories seek to recommend best practices for enhancing performance and improving management. A comprehensive text to the concepts, theories, and practices of organizational behavior. It covers various topics such as motivation, leadership, communication, decision-making, power, conflict, and organizational culture. The book presents a wide range of cases and examples to illustrate the practical applications of organizational behavior theories. It is an essential resource for students, scholars, and practitioners in the fields of management, organizational behavior, and human resource management.

Copyright 2024 | PB 9781774697252 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

*Rex is an MBA graduate from Arizona State University's Thunderbird School of Global Management, ranked No. 1 in the world for international trade by the QS International Trade Rankings, ahead of Cambridge, Harvard, and Stanford. Arizona State University ranked No. 1 as the "Most Innovative School" in the nation by U.S. News & World Report for eight years in succession. Rex graduated magna cum laude with a bachelor's degree in accounting from the University of San Carlos in the Philippines. Spanning over a decade of experience in finance, supply chain & operations projects with Fortune 500 clients and Business World's Top 1000 Corporations, as well as with startup and midsize companies, Rexcel Lagare is proficient in guiding clients enhance their business performance in his role as a management consultant.*



## Production and Operations Management

**Abhishek Sharma**

Production and operations management applies business concepts to create goods and services. Production and Operations Management is an essential guide for anyone seeking to understand the concepts and principles that underpin the efficient management of production processes. The book explores key topics such as inventory management, quality control, and supply chain management, with real-world examples and case studies to illustrate their practical application. With a focus on continuous improvement and the latest technological advancements, the book offers a comprehensive overview of the field of production and operations management.

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### About the Author

Abhishek is a Global MBA graduate from Bologna Business School and a certified Project Management professional with an experience of more than 12 years in Project Management, ESG, sustainability, and corporate social responsibility across both the for-profit and nonprofit sectors and multiple public policy roles. He has considerable experience developing and implementing carbon management strategies, responsible sourcing programs, and community and stakeholder engagement initiatives. He is a passionate and vocal advocate of moving ESG issues from being a footnote in C-level discussions to the forefront of business strategy and Project management planning. He has also spent significant time managing large Projects. In the past, he has held multiple influential senior leadership roles as a Senior Project Manager and is an advisor to some Multinational organizations.



## Business Environment

**Dr. Risha Khandelwal**

The business environment enables foresight into future threats. This textbook provides a comprehensive analysis of the various factors that influence the functioning of the business world. It explores the economic, social, cultural, technological, legal, and political aspects of the business environment, and their impact on business operations. The book offers valuable insights into the

changing dynamics of the global business environment and the challenges faced by businesses in adapting to them. It provides readers with a critical understanding of the factors that shape business decisions and strategies, and the tools and techniques used to analyze them.

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### About the Editor

Dr. Risha Khandelwal has expertise in finance and global business as an academician and researcher. She has been teaching and conducting research for more than six years. She has held positions at JECRC University in Jaipur and GL A University in Mathura. She received the UGC fellowship after passing the NET-JRF. She has written case studies, book chapters, and research papers that have been indexed by Google Scholar and SCOPUS. She is proficient in utilizing econometrics to analyze secondary data. She is currently a freelancer, helping academics with their research projects.



## Business Communication

**Rexcel Lagare**

A practical guide for professionals looking to improve their communication skills in the workplace. The book covers a wide range of topics, including writing effective emails, creating compelling presentations, and delivering engaging speeches. Readers will learn how to communicate with confidence and clarity, build strong relationships with colleagues and clients, and navigate complex communication challenges. The book is filled with real-world examples and practical tips, making it

an essential resource for anyone looking to succeed in the modern business world.

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### About the Author

Rex is an MBA graduate from Arizona State University's Thunderbird School of Global Management, ranked No. 1 in the world for international trade by the QS International Trade Rankings, ahead of Cambridge, Harvard, and Stanford. Arizona State University ranked No. 1 as the "Most Innovative School" in the nation by U.S. News & World Report for eight years in succession. Rex graduated magna cum laude with a bachelor's degree in accounting from the University of San Carlos in the Philippines. Spanning over a decade of experience in finance, supply chain & operations projects with Fortune 500 clients and Business World's Top 1000 Corporations, as well as with startup and midsize companies, Rexcel Lagare is proficient in guiding clients enhance their business performance in his role as a management consultant.



## Operations Research

**Mansi Bhatnagar**

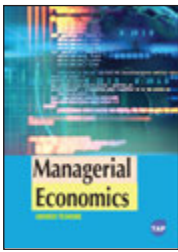
Operations Research is a field that applies advanced analytical methods to help make better decisions. This book provides a comprehensive introduction to the subject, covering topics such as optimization, modeling, simulation, and decision analysis. The book also includes real-world examples and case studies to illustrate how operations research can be applied to solve complex problems in various industries. Whether you're

a student or a professional, this book is an essential resource for anyone interested in operations research and its practical applications.

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### About the Author

Mansi Bhatnagar is an experienced researcher in the computer science and network security industry. She specializes in computer vision, deep learning, image processing, natural language processing, machine learning, and intrusion detection systems. Mansi earned her Master of Technology degree in Cybersecurity and is pursuing her Ph.D. in Telecommunication with a focus on Artificial Intelligence. With a proven track record of successful projects and exceptional research and analytical skills, Mansi is known for her strong work ethic, problem-solving abilities, and excellent communication skills. She is a valuable asset to any team and remains passionate about her work, continually seeking out new knowledge and advancements in her field.



## Managerial Economics

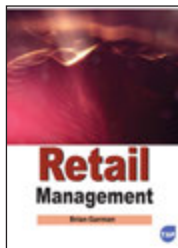
**Aboneh Teshome**

Managerial Economics is a comprehensive textbook to the application of economic principles and concepts in managerial decision-making. It covers topics such as demand analysis, production and cost analysis, market structure, pricing strategies, and risk analysis. This book is specially written to help managers make informed decisions by providing them with a deeper understanding of economic concepts and their application in business.

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### About the Author

Aboneh Teshome is a finance professional with over five years of experience in various roles. He holds a Bachelor of Science degree in Finance from Hawassa University. Aboneh began his career as a Finance Officer at the Ethiopian Lawyers Association, where he managed financial transactions, prepared financial reports, and ensured compliance with accounting standards. He later served as a Finance and Administrative Officer at World Vision International, where he managed financial resources, prepared budgets and reports, and ensured compliance with internal policies and donor regulations. Aboneh also worked as a Finance Manager at Ethiopian Social Accountability Program Phase 2, where he managed finances and provided financial management support to partners and stakeholders. Currently, Aboneh is the Program Director at PHE Ethiopia Consortium, where he leads the finance and administration team in managing financial resources and ensuring compliance with regulations. He is responsible for preparing budgets, financial reports, and providing financial management support to the organization's programs. Aboneh's experience in finance has equipped him with the skills and knowledge needed to manage financial resources effectively and ensure compliance with regulations. He has a proven track record of providing financial management support to programs and stakeholders.



## Retail Management

**Brian Garman**

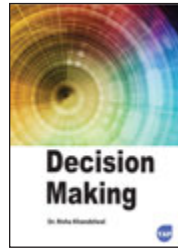
Retail management is the process of overseeing the day-to-day operations of retail establishments to ensure that they function efficiently, provide high-quality products and services, and remain profitable. The book on retail management covers various aspects of the retail sector, including operations, store planning, marketing, and the use of the latest technologies. It provides readers

with a comprehensive understanding of the retail industry, its challenges, and opportunities. The book focuses on effective management practices, which can help retailers to achieve their goals and objectives, and maintain a competitive edge in the market.

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### About the Author

Brian Garman is a seasoned software developer with over 20 years of experience in the field. He currently works as a Technical Director at a software development firm in South Africa. Brian is well-versed in programming languages such as C++, Python, and Java, and has a strong interest in machine learning and artificial intelligence. Throughout his career, Brian has developed a reputation as a reliable problem-solver, contributing to a variety of projects from large-scale enterprise applications to research and development initiatives. He is an active member of the software development community, participating in industry events and sharing his expertise with others through mentoring and training. Brian's innovative solutions have had a positive impact on many industries, making him a highly respected and accomplished software developer. His passion for learning and problem-solving continues to drive him forward in pushing the boundaries of what is possible in software development.



## Decision Making

**Dr. Risha Khandelwal**

The ability to make effective and timely decisions is critical for executives who want to be successful in their roles. This book explores a decision-making framework that is linked to strategic thinking. It provides readers with the tools and knowledge they need to evaluate various decision options and select the ones that best support organizational success. Through real-world examples, the book highlights the importance of making

informed decisions and demonstrates how the decision-making framework can be applied in practice.

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### About the Author

Dr. Risha Khandelwal has expertise in finance and global business as an academician and researcher. She has been teaching and conducting research for more than six years. She has held positions at JECRC University in Jaipur and GLA University in Mathura. She received the UGC fellowship after passing the NET-JRF. She has written case studies, book chapters, and research papers that have been indexed by Google Scholar and SCOPUS. She is proficient in utilizing econometrics to analyze secondary data. She is currently a freelancer, helping academics with their research projects.



## Introduction to Financial Management

**Sudhanshu Pandiya**

"Finance is a core subject for business students that is known to be hard and that many find hard to understand. The field has been dominated by long, complicated introductory texts, most of which come from the United States. Many professors find these texts too detailed and hard to use. This carefully written and researched text will fill this gap by giving a short and modular introduc-

tion to the subject of financial management. The easy-to-use features and design will be a big draw for many college students who find finance to be a hard subject. Examples, models, formulas, and exercises are given in a clear and easy-to-understand way, and they are backed up by strong teaching tools like learning objectives, worked examples, and key learning points. After reading this book, the students will be able to:

- Do strategic planning, organizing, directing,
- Control financial undertakings in an organization or an institute.
- Apply management principles to the financial assets of an organization

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### About the Author

Dr. Sudhanshu Pandiya presently working as Associate professor with the University Institute of Business Management CSJM University (formerly known as Kanpur University), Kanpur. With more than two decades of experience in the world of management education and in merchant banking industry. His area of interest is international finance, financial services and investment management. He has authored more than 40 research papers published in national and international journals. He has also authored a book on banking. He has conducted numerous workshops / EDPs / MDPs for the industry as well as academics. He is a member of board of studies and committees of various universities and governing council of various colleges.



## Sustainable Finance and Investments

**Elisa Gomez Gonzalez**

Sustainability is a concept that has taken hold recently, whether the topic is home building or economics. Sustainable finance has a key role to play in the world's transition to net zero by channeling private money into carbon-neutral projects. The main aim of this book is to provide simple, effective, understandable, and applicable mechanisms for all readers. To enable and empower

them to implement management systems that are adapted to the reality and expectations of their business. In this book, you will find all of those mechanisms and resources needed to ensure that sustainability is well embedded into a company through Human Resources Practices, Marketing, and Communication, Procurement, and CEO Leadership.

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### About the Author

Born in the Canary Islands, Elisa Gomez has always been aware of the immense potential and limitations that resources provide to communities. Following her passion towards the environment and sustainable development mechanism, she completed the Madrid Environmental Sciences degree and later completed a Master's degree in International Sustainable Development and Corporate Sustainability. She has worked for a wide range of industries and sectors as a sustainability consultant and analyst implementing international standards, achieving certifications, and ensuring the management processes were effective. The sectors englobe oil and gas, construction, telecommunications, and software design. Moved by a great passion towards her work, she decided to quit the corporate environment and set up her own company, Better Together ([www.bettertogether-sustainability.com](http://www.bettertogether-sustainability.com)) an online sustainability company that specializes in simple, effective, and understandable sustainability practices for all types of companies. They focus especially on Startups and SMEs, as these are growing; ensuring that they are sustainable right from the start without the burden of complicated, time-consuming, and expensive measures.



## Social Capital and Business Management: When People Really do Matter

**D.P. Warne**

This book describes the role of social capital and its influence on business management. Social capital is essential for the development process and is clearly discussed with appropriate examples. The concepts of the knowledge economy and rural development are explained in detail. Economic behavior as a function of social capital is illustrated in this book. The advances in social capital research are provided in detail. The role of social capital and the importance of the networks are explained. Finally, social entrepreneurship with social capital is discussed. This book can be used for students who are pursuing graduate and undergraduate courses.

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### About the Author

D.P. Warne is currently senior professor and Dean, Faculty of Commerce and Management, Chaudhary Devi Lal University, Sirsa. He did his Master's program from Guru Nanak Dev University and PhD from Punjab Agricultural University, Ludhiana. He started his career as an officer at Duke Fabrics. His love for teaching however, made him to resign this position. Presently, he is university proctor, Dean (International Relations), Director (consultancy cell), University Librarian, Member (Executive Council) and Member (Academic Council). He has served for more than 10 years as head of department and Dean, Faculty. He is a member of many academic and professional bodies. He has teaching, research and industrial experience of 30 years. He has published seventy papers in national and international journals of repute and also has participated in seminars, workshops and conferences.



## Economic Empowerment and Sustainable Development

**Sushila Sinha**

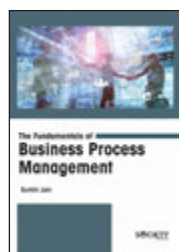
The book "Economic empowerment and sustainable development" highlights the concepts and major ways of economic empowerment and sustainable development. The text material of the book has been systematically structured and presented briefly in easy language. Concepts are supported with appropriate figures. This book

included various aspects of economic empowerment, viz women empowerment, women economic empowerment, economic empowerment models etc. Sustainable development aspects included an overview of sustainable development with its policies and practices, the Role of Agricultural Economics in sustainable development, etc. Importantly the book help reader to learn concepts of economic empowerment and sustainable development, to policymakers for formulating appropriate policies for the sustainable and economic development of the nation.

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### About the Editor

Dr. Sushila is received the Ph.D degree in Agriculture Economics from Banaras Hindu University, Varanasi in year 2011. She is currently working as Assistant Professor, Agricultural Economics, in College of Agriculture and research station, Marra (Patan), Indira Gandhi Krishi Vishwavidyalaya Raipur, India. Her teaching and research interests are in the area of Rural development, Micro finance, Agribusiness management. She has guided 06 M.Sc students and published numbers of research papers in national and international journals.



## The Fundamentals of Business Process Management

**Surbhi Jain**

Business executive processes are not as laser-centered on seeing through a task from beginning to end, as they are centered around arranging and extending the eventual fate of organizational activities. An illustration of a process management may be a CEO determining how best to put together the marketing group's time and

energy for a PR set-off campaign. Process involves distributing resources, characterizing time spans, and making sure that the structures are set up and upgraded. Functional processes operational cycles concern business process. This field is concerned with dissecting, planning, carrying out, and constantly working on hierarchical cycles. While former contributions zeroed in on the (re-)plan of single cycles, modern research requires an all-encompassing perspective on the administration of business processes (BPs). With that in mind, this volume presents business process as an incorporated arrangement of corporate skills associated with vital structure, administration, techniques, innovation, individuals, and culture. The volume provides significant standards of process thinking, portraying the fundamental ability of business process, and examining settings as a significant achievement variable in business process.

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### About the Author

Dr Surbhi Jain is the Academic Director at TheWorldgrad She has a PhD (management) and an MBA (Marketing and HR). She has over 11 years of experience. She reads voraciously and writes eclectically. She has authored five books on Business communication, a prescribed textbook for the Mumbai university management course. This is in addition to 5 international research papers and three international case studies published within the last four years. She is a registered PhD Supervisor. She believes in encouraging young individuals to see the beauty and potential within them and encouraging deep love and respect for others and the environment.



## Organization and Leadership in Disruptive Times

**Seyed Ali Fallahchay**

This book has an outline of effective management. This book also explains how to lead and supervise transformation in the era of digital disruption and artificial intelligence. Additionally, the importance of quantum leadership and current leadership complexities are highlighted. It also clearly states the quality of education in these troubled times. Additionally, it serves as an illustration of the future of leadership in disruptive times.

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### About the Author

Seyed Ali Fallahchay PhD., is a Professor at the University of Mansford. He, also, teaches at Raffles Design Institute in Indonesia. Dr. Fallahchay earned his Doctorate from De La Salle Araneta University in the Philippines. He earned his Bachelor in Engineering of Industrial Forestry from the University of Azad Islamic, Iran. In 2011, he became a licensed engineer. While pursuing his post-secondary education, he managed his own distribution company in Iran. He also managed a manufacturing business in the Philippines. Dr. Fallahchay has a passion for teaching. In 2015, he started teaching at several colleges and universities in the Philippines. Later, he became the Director of Research and Development at one of the University in Philippines. Dr. Fallahchay has authored five (5) books — Modern Scientific Communication, The Economic of Innovation, Data Science and Decision Making: An Introductory Text for Students and Practitioners, Business and Administrative Communication, Communication in Everyday Life, and Handbook of Group Decision



## Social Media Mobile Marketing: New age of commercially lucrative relationships

**Kavita Singh**

Smartphones are now practically an essential item for most of the world. Businesses that do not make use of this modality are bound to lose out to major corporations that are already trying to dominate this segment. COVID-19 has made it a matter of urgency to make use of the internet in new and imaginative ways. In a market with dwindling customers, it makes sense to find as many ways as possible of reaching them. This book will discuss the opportunities that social media and the internet generally present. Simultaneously, this book highlights the limitations of these modalities in terms of engaging customers that may be used to the old-fashioned way of getting to know brands and establishing a personal relationship with them.

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### About the Author

Kavita Singh has born and brought up in royal family of a learned professor. She has completed her all the education from satna district of madhya Pradesh Presently she is Pursuing her PhD in the subject of Sociology on "impact of Social Media on youths ". She have about Five years of teaching experience in Higher education. Her three research papers has-been published on reputed journals all are related to sociological problems and social media. She is very sinciar researchar in the field of sociology.



## Exploring Data and Business Management: How Information Helps in Supervision

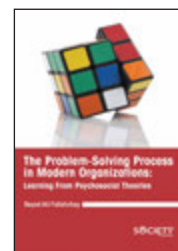
**Richa Tiwari**

This book provides an introduction to the concept of data management, and data analysis. It also explains the significance of big data and business analytics. This book sheds light on the business intelligence, and modern business intelligence. It also discusses the challenges and opportunities in data science and data analytics. In the later chapters it gives an insight to the future of data science.

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### About the Author

Richa Tiwari, Ph.D and Post Graduate in Industrial Relation and Personnel Administration. She is currently working as Academic Associate at IIM, Ahmedabad. She also has many years of experience in working organisations in the field of HRM. She has also contributed in many research papers and journals.



## The Problem-solving Process in Modern Organizations: Learning from Psychosocial Theories

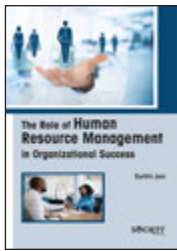
**Seyed Ali Fallahchay**

The past may not always be a good indicator of the present or the future. Hence, the organization must cultivate the foresight and patience to be able to evaluate a problem solution in an objective manner. Psychosocial theories have tried to explain, predict, and describe organizational problems. This has been done to make it easier to solve any challenges that organizations face over time. This book offers a unique opportunity to explore the classic problem-solving process from a theoretical and practical point of view. It will be a useful text for undergraduates in a range of disciplines that include business management, administration, entrepreneurship, psychology, social work, and leadership studies.

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### About the Author

Seyed Ali Fallahchay PhD., is a Professor at the University of Mansford. He, also, teaches at Raffles Design Institute in Indonesia. Dr. Fallahchay earned his Doctorate from De La Salle Araneta University in the Philippines. He earned his Bachelor in Engineering of Industrial Forestry from the University of Azad Islamic, Iran. In 2011, he became a licensed engineer. While pursuing his post-secondary education, he managed his own distribution company in Iran. He also managed a manufacturing business in the Philippines. Dr. Fallahchay has a passion for teaching. In 2015, he started teaching at several colleges and universities in the Philippines. Later, he became the Director of Research and Development at one of the University in Philippines. Dr. Fallahchay has authored five (5) books — Modern Scientific Communication, The Economic of Innovation, Data Science and Decision Making: An Introductory Text for Students and Practitioners, Business and Administrative Communication, Communication in Everyday Life, and Handbook of Group Decision



## The Role of Human Resource Management in Organizational Success

**Surbhi Jain**

Human resource management is often led and controlled by a range of systems and policies that can emanate within and outside the organization. No organization can survive without the support of human resource managers. Through meticulous consistency and professionalism, the human resources department can protect the organization from predatory employees that may be looking to exploit legal loopholes to extract unmerited compensation from the organization for the flimsiest of reasons. This book will explore various conceptualizations of human resource management. The book is aimed at those who are generally interested in working people and their experiences in the workplace. However, the book is useful for undergraduates in a range of management courses.

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### About the Author

Dr Surbhi Jain is the Academic Director at TheWorldgrad. She has a PhD (management) and an MBA (Marketing and HR). She has over 11 years of experience. She reads voraciously and writes eclectically. She has authored five books on Business communication, a prescribed textbook for the Mumbai university management course. This is in addition to 5 international research papers and three international case studies published within the last four years. She is a registered PhD Supervisor. She believes in encouraging young individuals to see the beauty and potential within them and encouraging deep love and respect for others and the environment.



## Comprehensive Guide to Business Risk Management

**Jonah C. Pardillo**

This book primarily focuses on business risk management and the factors affecting enterprises. First, the fundamental concepts of risk management are explained with a particular focus on e-business. Second, the factors affecting project management in the business sector are explained. Third, the prominent role of corporate governance and supply chain risk management in running a successful business is provided in this book. Finally, the steps to be followed to maintain sustainable business with risk mitigation are discussed. This book can be used for students who are pursuing graduate and undergraduate courses.

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### About the Author

Jonah C. Pardillo received her degree for Masters in Business Administration from University of the East, Philippines. Her bachelor was also earned from University of the East. Currently, she is affiliated at University of Mansford, California, USA. She has professorial experience and teaches several business courses in undergrad from Far Eastern University, Technological Institute of the Philippines, Manila Business College, Global Reciprocal College. Further, she was also a Content developer for undergrad and graduate business subjects. Aside from academic experience, she also manages her own business.



## Business Marketing Management in a Business-to-Business Context

**D.P. Warne**

Marketers seeking to serve the needs of organizations rather than households face specific challenges and opportunities. Business-to-business customers represent a lucrative and complex market that deserves a separate analysis. This corporate marketing volume provides an ideal platform to deepen readers' understanding of the competitive realities of global markets, customer relationship management and cross-sectional decision-making processes, supply chain management, e-commerce, and related fields. These core content areas resonate with business stakeholders and directly address important educational priorities. Second, the volume provides a perfect tool for examining the unique characteristics of the high-tech market and identifying the unique challenges facing marketing strategies in this field. E-commerce is also entirely within the category of commercial markets. In fact, the opportunity for e-commerce in the business-to-business market is estimated to be many times larger than the opportunity that exists in the business-to-consumer market. This volume highlights the similarities between consumer goods and business-to-business marketing, and details where to start. Special attention is given to market analysis, an organization's purchasing behavior, customer relationship management, supply chain management, and the subsequent adjustment of elements of marketing strategies used to reach an organization's customers.

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### About the Author

D.P. Warne is currently senior professor and Dean, Faculty of Commerce and Management, Chaudhary Devi Lal University, Sirsa. He did his Master's program from Guru Nanak Dev University and PhD from Punjab Agricultural University, Ludhiana. He started his career as an officer at Duke Fabrics. His love for teaching however, made him to resign this position. Presently, he is university proctor, Dean (International Relations), Director (consultancy cell), University Librarian, Member (Executive Council) and Member (Academic Council). He has served for more than 10 years as head of department and Dean, Faculty. He is a member of many academic and professional bodies. He has teaching, research and industrial experience of 30 years. He has published seventy papers in national and international journals of repute and also has participated in seminars, workshops and conferences.



## Business and Management



### Fundamentals of Accounting

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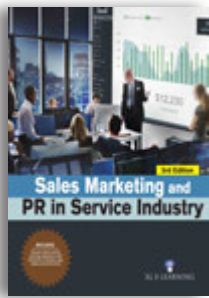
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- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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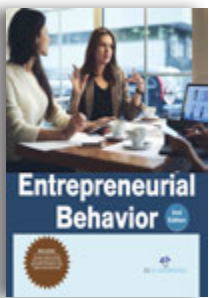


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- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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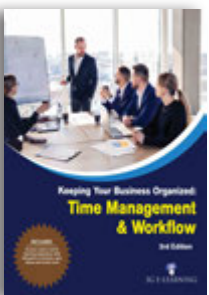


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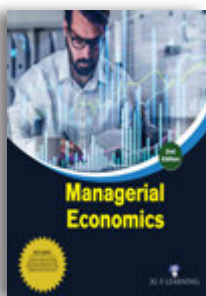


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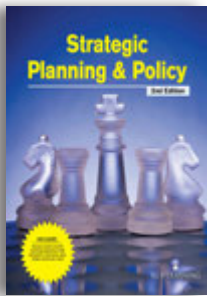
### Managerial Economics (2nd Edition) (with Access Code)

- Provides a detailed introduction to managerial economics.
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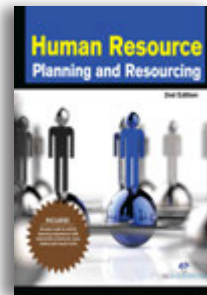


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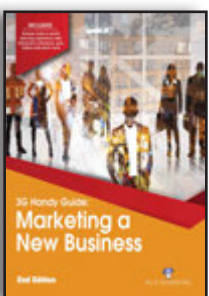


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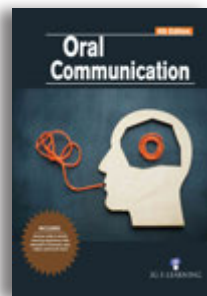


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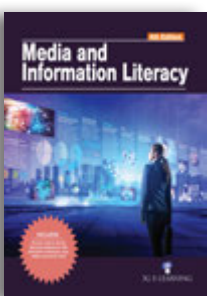


### Oral Communication (4th Edition) (with Access Code)

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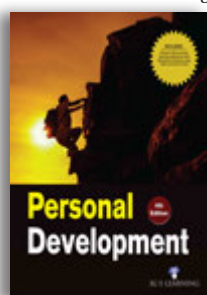


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# Business and Management

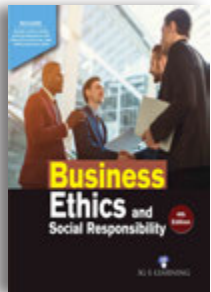


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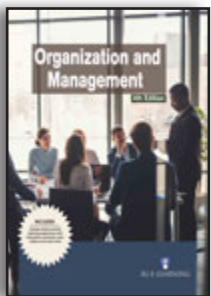


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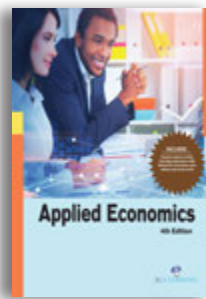


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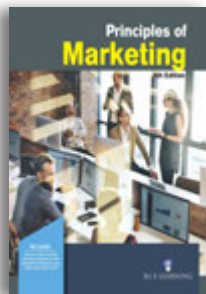


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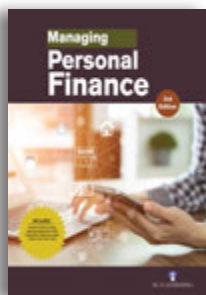


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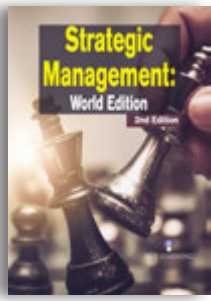
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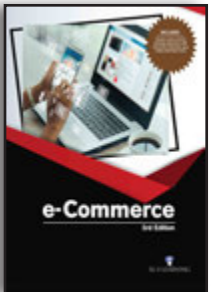


### Business Essentials: World Edition (2nd Edition)

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- Reports on practical approaches for facilitating the process of achieving excellence in the management and leadership of organizational resources.
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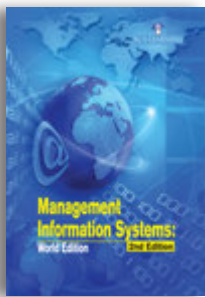


### Financial Management: World Edition (2nd Edition)

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- A core subject which provides unavoidable part of the overall business management.
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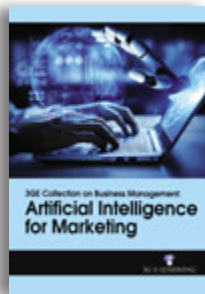


### 3G Handy Guide: Project Management (with Access Code) (2nd Edition)

- This handy guide reflects the collaboration and knowledge of working project managers and provides the fundamentals of project management as they apply to a wide range of the latest good practices in project management.
- An essential guide for learners to improve practical knowledge; provides the opportunity to strengthen your understanding of project management in real-world application, with questions and exercises.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984680723 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

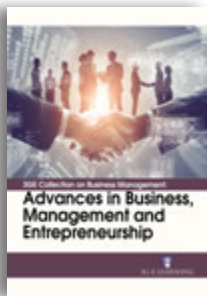


### 3GE Collection on Business Management: Artificial Intelligence for Marketing

- Explains how Artificial Intelligence and Machine Learning will revolutionize your company's marketing strategy, and teach you how to use it most effectively.
- It also explores the inevitable myths, concerns and ethical questions that can arise from the large-scale adoption of AI.

ISBN: 9781984680877 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC

## Business and Management



### 3GE Collection on Business Management: Advances in Business, Management and Entrepreneurship

- It seeks to develop an understanding of the concepts of management and entrepreneurship.
- Highlights topics including intellectual capital, risk management, and entrepreneurship education.
- The book lays emphasis on simplified definitions and point-wise presentation of theoretical concepts.

ISBN: 9781984680884 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### 3GE Collection on Business Management: Managing Customer Experience and Relationships

- This book provides a robust foundation in CRM principles and practices, to help any business achieve higher customer satisfaction.
- This book analyzes the challenges of creating excellent customer experiences, including the management of technology and new media.

ISBN: 9781984680891 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### Illustrated Handbook of Excellence In Management

- Provides the definitive standard for successfully and efficiently dealing with managerial situations and dilemmas.
- This book will also help in enhancing the performance of individuals, dyads, and teams for achieving organizational excellence.

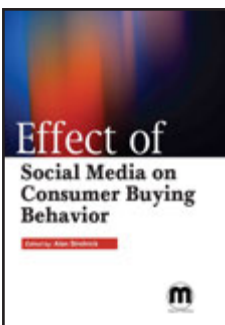
ISBN: 9781984681232 | Price: \$180 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### Illustrated Handbook of Statistical Quality Control

- This book includes coverage of SQC techniques in both industrial and non-manufacturing settings, providing fundamental knowledge to students of engineering.
- This book continues to explore the modern practice of statistical quality control, providing comprehensive coverage of the subject from basic principles to state-of-the-art concepts and applications.

ISBN: 9781984681249 | Price: \$180 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### Effect of Social Media on Consumer Buying Behavior

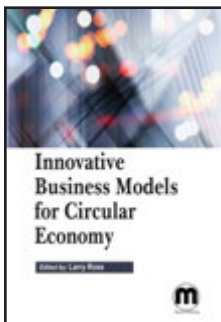
Editor: Alan Strelnick

Social media has significantly influenced consumer behavior by providing a platform for information sharing and product reviews, leading to increased reliance on online recommendations and shaping purchasing decisions. The book explores the profound impact of social media on consumer buying behavior. It investigates how platforms like Facebook, Instagram, and Twitter have revolutionized the way people shop and make purchasing decisions. Through in-depth research and

case studies, it uncovers the psychological and social factors that influence consumers' choices and provides valuable insights for businesses aiming to leverage social media as a marketing tool.

Print ISBN: 9781682508695 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### Innovative Business Models for Circular Economy

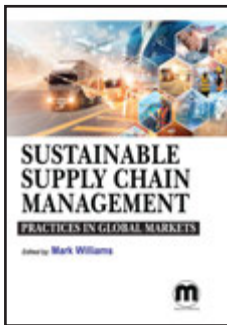
Editor: Larry Ross

The evolving economy has witnessed the emergence of new business models such as sharing economy, subscription-based models, and platform-based models that have disrupted traditional industries and transformed the way goods and services are consumed and delivered. These innovative business models emphasize collaborative consumption, customization, and the use of technology to create efficient marketplaces, thereby fostering economic growth and market expansion.

This book presents a collection of innovative business models that promote a circular economy. It highlights successful case studies from various industries, showcasing how organizations can move away from the traditional linear production model and embrace sustainability.

Print ISBN: 9781682508701 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### Sustainable Supply Chain Management Practices in Global Markets

Editor: Mark Williams

Sustainable supply chain management has become crucial in global markets as organizations strive to minimize their environmental impact and ensure ethical practices throughout the supply chain. By adopting sustainable sourcing, optimizing logistics, and implementing green initiatives, companies can improve their reputation, reduce costs, and meet the growing consumer demand for environmentally responsible products. Addressing the urgent need for sustainable supply chain management,

this book provides a comprehensive overview of best practices in global markets. It explores the challenges and opportunities associated with creating environmentally and socially responsible supply chains. From responsible sourcing to green logistics, the book offers practical guidance and real-world examples to help organizations enhance their supply chain sustainability and achieve a competitive edge in the global marketplace.

Print ISBN: 9781682508718 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### Leadership Development for High-Performing Teams

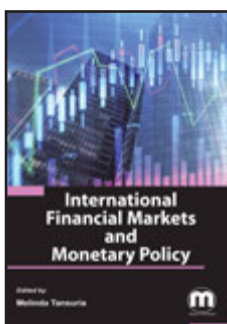
Editor: Rui Huang

Effective leadership development programs focus on equipping individuals with the necessary skills, such as communication, collaboration, and decision-making, to lead high-performing teams. By fostering a supportive and empowering environment, leaders can inspire and motivate their teams to achieve goals, drive innovation, and maximize productivity. This book is a valuable resource for leaders and managers seeking to

develop high-performing teams. It explores the key principles and strategies necessary for effective leadership in today's dynamic and competitive environment. With practical tools and techniques, it offers guidance on team building, motivation, communication, and conflict resolution. By leveraging these insights, leaders can foster a culture of collaboration and empowerment, leading to greater team productivity and success.

Print ISBN: 9781682508732 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### International Financial Markets and Monetary Policy

Editor: Melinda Tansuria

The new crisis has increased the importance of preserving financial stability through the international cooperation of central banks around the globe. Managing the expectations of market participants plays a crucial role in the context of financial stability. Therefore, the aim of this book is to disseminate important empirical and theoretical questions concerning the connection between monetary policy and international financial markets.

Print ISBN: 9781682508107 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Digital Transformation in the Banking Industry

Editor: Yang Pan

The banking industry is undergoing a significant digital transformation, with the integration of technology and data-driven solutions to enhance customer experiences, streamline processes, and improve operational efficiency. Digital banking services, such as mobile banking apps and online transactions, have revolutionized the way customers interact with financial institutions, leading to increased convenience and accessibility. This groundbreaking book covers the digital transformation journey within the banking industry. The book provides a roadmap for banks to navigate the digital era successfully and create customer-centric, technologically advanced financial services.

Print ISBN: 9781682508725 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### Managing Human Resources in the Digital Age

Editor: Genthon Gallée

In the digital age, human resources departments are leveraging technology to streamline recruitment processes, enhance employee engagement through digital platforms, and leverage data analytics for informed decision-making. HR professionals are also adapting to remote work arrangements and utilizing digital tools to provide virtual training and development opportunities.

This book explores the challenges and opportunities faced by organizations in managing their workforce in an increasingly digital and technology-driven era. The book covers the topics such as remote work, virtual collaboration, and the impact of automation on human resources practices, providing practical strategies for optimizing employee engagement and productivity in the digital workplace.

Print ISBN: 9781682508749 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### Applied Managing for Entrepreneurship

Editor: David Gozal

Economies are powered by innovation. Much of that innovation derives from forward-thinking individuals who possess the drive, skills, and background to turn a business vision into reality. The importance of entrepreneurs extends beyond the effect those individuals have on their own companies, however. They impact their broader communities, and, in some cases, even the world. Entrepreneurs have played a pivotal role in the growth of the U.S. economy since the 19th century. This book presents the analytical and synthetic dimensions of the foundations of entrepreneurship decisions.

Print ISBN: 9781682508114 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Business Continuity Strategies

Editor: Michael A. Mitchell

Business continuity is a proactive way to ensure mission-critical operations proceed during a disruption. Business continuity is important for organizations of any size, but it might not be practical for any but the largest enterprises to maintain all functions for the duration of a disaster. Typically the business continuity strategy outlines the structure of how to prevent, respond and recover from a disaster. This book covers how to plan, implement and enhance a business continuity management system.

Print ISBN: 9781682508039 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Corporate Social Responsibility and Stakeholder Engagement

Editor: Shaohua Wang

Corporate social responsibility is a way of describing how companies measure and control their impact on society. More recently, CSR has become recognized as a growing area of strategic value creation for companies. This book presents understanding how multinational corporations act and behave both at the national and international level in the fields of corporate social responsibility and sustainable development, will present how large

multinational enterprises react to the increasing pressures from stakeholders to report their corporate social responsibility at the global level.

Print ISBN: 9781682508053 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Integrating Business Management Processes

Editor: Zhenzhen Yu

Business integration is a strategy whose goal is to synchronize IT and business cultures and objectives and align technology with business strategy and goals. Business integration is a reflection of how IT is being utilized as a function of business. This book is intended to explain what business integration is, how it works and why it is a beneficial tool for optimizing communication among companies, as well as provide an example of a business integration solution.

Print ISBN: 9781682508077 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



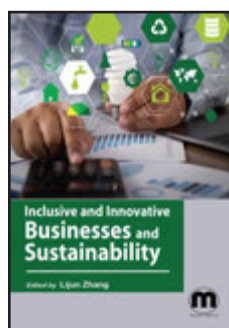
### Competitive Quality Strategies

Editor: Jimin Zheng

Quality is a holistic part of an organization's total competitive advantage, and the role of the customer has thus become increasingly central in quality work. Quality is also connected with a company's business strategy, management and leadership – and is seen as everyone's responsibility. This book deals with the quality management methods, tools, and practices that help to improve an organization's performance and achieve sustainable competitive advantages.

Print ISBN: 9781682508046 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Inclusive and Innovative Businesses and Sustainability

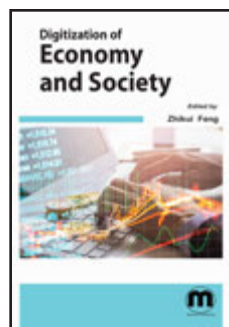
Editor: Lijun Zhang

Companies can most notably develop inclusive business ventures, that is, sustainable business solutions that expand access to goods, services, and livelihood opportunities for low-income communities in commercially viable ways. This spurs economic growth and encourages entrepreneurship. This book implores us to address sustainability from the lens of emerging economies and the role that innovation can play in this context.

This book highlights the concept of inclusive business in the current global context, provides a few examples of its application in practice, highlights the foundations for its success, and briefly presents an interactive tool, the "Inclusive Business Challenge".

Print ISBN: 9781682508060 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Digitization of Economy and Society

Editor: Zhikui Feng

Digitization has the potential to boost productivity, create new jobs, and enhance the quality of life for society at large. Digital technologies have the potential to boost more inclusive and sustainable growth by spurring innovation, generating efficiencies and improving services. They are also an important tool in helping countries to confront and recover from the COVID-19 pandemic that has disrupted economies and societies globally. This book looks at a selection of important issues resulting from the digitization of society, which

has fundamentally transformed organizations.

Print ISBN: 9781682508121 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC





### Multi-Criteria Methods and Techniques Applied to Supply Chain Management

*Editor: Veronica Kalugendo*

Organizations identify and select vendors that can supply materials in a streamlined and efficient way according to agreements. Supply chain collaboration starts at this stage and is important throughout the supply chain management process. The ultimate goal of effective supply chain management is higher profits through improved customer satisfaction and a lower cost of doing business. Profits are healthier when costs are controlled and reduced wherever possible. Operating costs go down when

the costs of raw materials and production go down. This book deals with the methods and techniques applied to supply chain management.

**Print ISBN: 9781682508084 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Understanding Consumer Behaviour in a Virtual World

*Editor: Stefan Acosta*

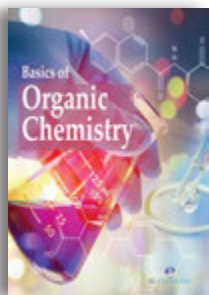
Companies are constantly required to adapt to ever-evolving consumer preferences. Consumer behaviour is easily influenced by targeting individuals' perception and experiences. New technologies such as Virtual Reality have the power to dramatically alter consumer behaviour and purchasing decisions. In today's modern marketplace, many customers favour buying experiences over material items. The key to marketing is understanding and satisfying consumer needs, thus

a knowledge of consumer behavior is essential to any organization dealing with customers, users, or clients. The book focuses on focuses on consumer needs, buying behaviour, and the art of customer satisfaction.

**Print ISBN: 9781682508091 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**

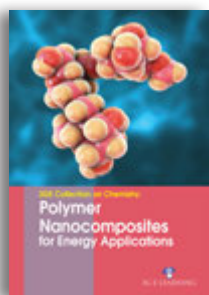
## Chemistry



### Basics of Organic Chemistry

- Provides a solid foundation in the fundamentals of organic chemistry.
- Deals with topics such as structure, bonding, nomenclature, reactions, and functional groups, making it an essential resource for students of chemistry and related fields.
- This book is a valuable tool for anyone seeking to understand the principles of organic chemistry.

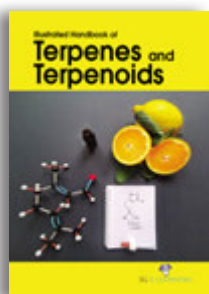
ISBN: 9781984685759 | Price: \$70 | Copyright: 2024 | Binding: Paperback |  
Publisher: 3G E-learning LLC



### 3GE Collection on Chemistry: Polymer Nanocomposites for Energy Applications

- The book explores the storage of electrical, magnetic, and thermal energy and hydrogen.
- It also discusses energy generation by polymer-based solar cells.
- The book also covers the applications of carbon-based polymer nanocomposite in the environmental and energy fields.

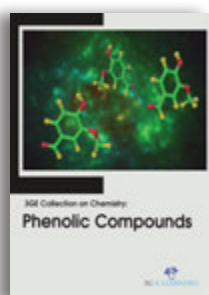
ISBN: 9781984680969 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC



### Illustrated Handbook of Terpenes and Terpenoids

- The book discusses the applications of physical methods to some structural and stereochemical problems in terpenes and steroids.
- Presents an overview and highlights recent research in the phytochemical and biological understanding of terpenes and terpenoid and explains the most essential functions of these kinds of secondary metabolites.

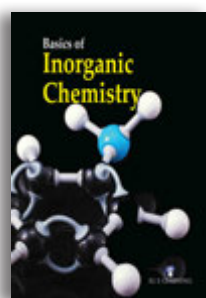
ISBN: 9781984681287 | Price: \$180 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC



### 3GE Collection on Chemistry: Phenolic Compounds

- Shows the state of the art of diverse biological activity of the phenolic compounds.
- This book focuses on the interaction of enzymes and phenolic compounds, oxidation-reduction systems in plants and microorganisms, and phenolase complex.

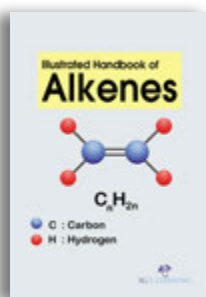
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Publisher: 3G E-learning LLC



### Basics of Inorganic Chemistry

- Provides a fundamental understanding of the principles and concepts of inorganic chemistry.
- Covers topics ranging from atomic structure and chemical bonding to coordination compounds and bioinorganic chemistry.
- An excellent resource for students and professionals alike.

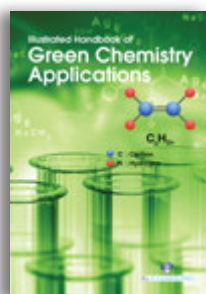
ISBN: 9781984685766 | Price: \$70 | Copyright: 2024 | Binding: Paperback |  
Publisher: 3G E-learning LLC



### Illustrated Handbook of Alkenes

- This book examines the production and synthesis of alkenes and industrial production of these hydrocarbons. It also discusses eco-friendly and green separation techniques.
- The book also covers topics on the oxidation of alkenes and alkynes, as well as the multiple insertion reactions of alkenes and alkynes.

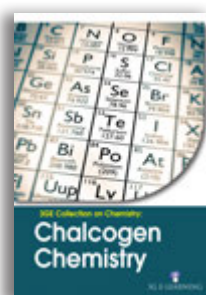
ISBN: 9781984681270 | Price: \$180 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC



### Illustrated Handbook of Green Chemistry Applications

- Principles of green chemistry are presented in a simple way, with examples of the applications of green chemistry in numerous areas showcasing it as an ideal alternative for environmental care.
- This book highlights the potential and scope of green chemistry for clean and sustainable development.

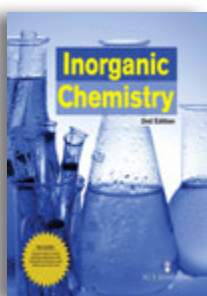
ISBN: 9781984681294 | Price: \$180 | Copyright: 2023 | Binding: Hardcover |  
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### 3GE Collection on Chemistry: Chalcogen Chemistry

- This book deals systematically with the chemistry of chalcogens in relation to other group elements in the periodic table, and also includes an overview of metal-chalcogenides and metal-polychalcogenides.
- Provides an overview of recent developments on the chemistry of the chalcogen group elements (S, Se and Te).

ISBN: 9781984680952 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC

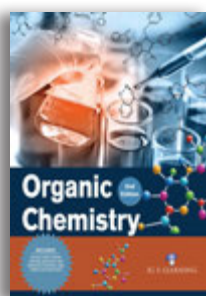


## Inorganic Chemistry (2nd Edition) (with Access Code)

- Provides a foundation for the understanding of the varying chemistries of the elements of the Periodic Table, with emphasis on inorganic materials.
- Topics include principles of structure, bonding, and chemical reactivity with application to compounds of the main group and transition elements, including organometallic chemistry.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984679888 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Organic Chemistry (2nd Edition) (with Access Code)

- Provides the student with the necessary background to understand the chemistry of carbon-containing compounds.
- Topics will include structure, stereochemistry, nomenclature, synthesis, properties, and reactions of the major classes of organic compounds.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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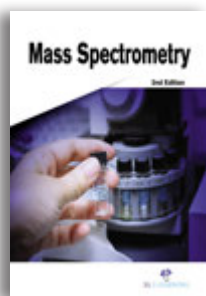


## Analytical Chemistry (2nd Edition) (with Access Code)

- Offers an introduction to sampling, error and statistical analysis as applied to analytical chemistry.
- Introduces the basic analytical techniques of sample preparation and separation as well as data collection, quantitation and treatment using titrimetric and instrumental methods of analysis.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984679901 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

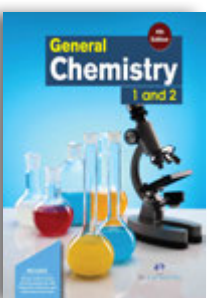


## Mass Spectrometry (2nd Edition)

- Offers a blend of practice-oriented information and theoretical background as well as numerous references and clear illustrations.
- Provides a wide-ranging and practical overview of all aspects of the use of mass spectrometry in environmental applications.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984680037 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

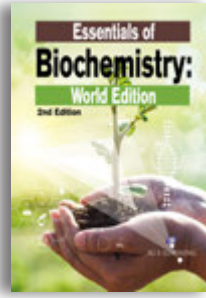


## General Chemistry 1 and 2 (4th Edition) (with Access Code)

- Explores the key areas of chemistry needed for engineers. This study guide is a supplemental resource to help students learn/review the important concepts covered in the General Chemistry course.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.
- In its updated 4th edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ④

ISBN: 9781984680570 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

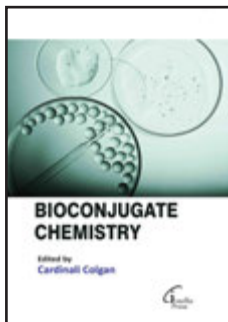


## Essentials of Biochemistry: World Edition (2nd Edition)

- The book is beautifully designed and executed, and renders the study of biochemistry enormously appealing to medical students and various allied health students.
- Strengthens the link between biochemistry and medicine and allows the student to learn about this interaction as the biochemistry is presented.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984680624 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Bioconjugate Chemistry

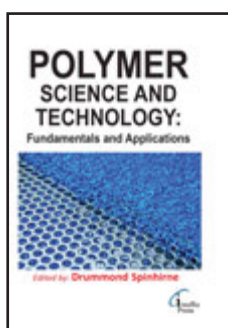
Editor: Cardinali Colgan

Bioconjugate chemistry involves the synthesis and study of molecules that combine biological and non-biological components. By linking different molecules together, bioconjugate chemistry enables the development of novel tools and techniques for biological research, drug delivery systems, and diagnostics. It plays a crucial role in understanding the interactions between biological molecules and creating tailored solutions for various biomedical applications. This book delves

into the field of bioconjugation, studying the covalent attachment of biologically active molecules to enhance their functionality.

Print ISBN: 9781682519639 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Polymer Science and Technology: Fundamentals and Applications

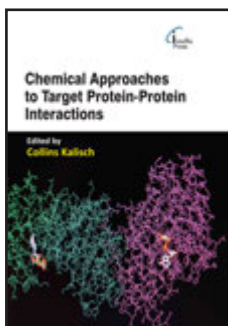
Editor: Drummond Spinhirne

Polymer science and technology involve the study of polymers, large molecules made up of repeating subunits. It encompasses the synthesis, characterization, and manipulation of polymers to create materials with desired properties. Polymer scientists and technologists develop new materials for a wide range of applications, including electronics, coatings, biomedical devices, and sustainable packaging. This book covers the fundamental

principles and practical applications of polymers in various industries.

Print ISBN: 9781682519653 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Chemical Approaches to Target Protein-Protein Interactions

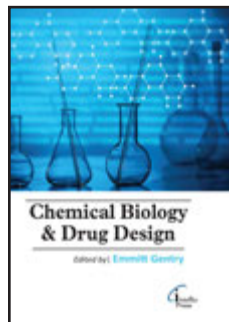
Editor: Collins Kalisch

Protein-protein interactions play a crucial role in various biological processes and are involved in many diseases. Chemical approaches aim to design small molecules or peptides that can modulate or disrupt specific protein-protein interactions. This field of research has the potential to lead to the development of new therapeutic strategies for diseases where protein-protein interactions are dysregulated. This book explores the use

of chemical tools and techniques to study and manipulate protein-protein interactions.

Print ISBN: 9781682519677 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Chemical Biology & Drug Design

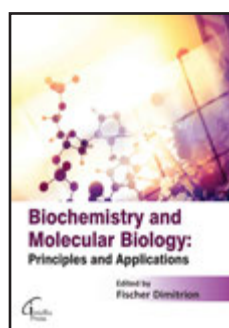
Editor: Emmitt Gentry

Chemical biology employs chemical principles and techniques to study and manipulate biological systems. It encompasses the design and synthesis of molecules that target specific biological processes or diseases. By understanding the underlying mechanisms, chemical biologists can develop new drugs, optimize drug delivery methods, and contribute to the development of personalized medicine. This book focuses on the intersection of chemistry and biology, exploring the design and

development of new drugs.

Print ISBN: 9781682519646 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Biochemistry and Molecular Biology: Principles and Applications

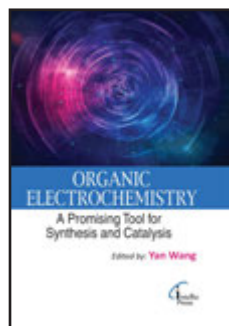
Editor: Fischer Dimitrion

Biochemistry and molecular biology investigate the structure, function, and interactions of biological molecules, such as proteins, nucleic acids, and carbohydrates. These disciplines explore the biochemical pathways and processes that underpin life, from the molecular level to cellular and organismal levels. Understanding biochemistry and molecular biology is fundamental to advancing fields like medicine, agriculture, and biotechnology. This book provides an overview of the fundamental principles and

applications of biochemistry and molecular biology.

Print ISBN: 9781682519660 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Organic Electrochemistry: A Promising Tool for Synthesis and Catalysis

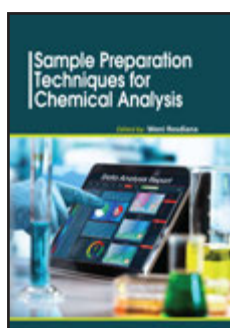
Editor: Yan Wang

Organic electrochemistry focuses on the use of electricity to drive chemical reactions involving organic compounds. It offers sustainable and efficient methods for synthesizing complex organic molecules, such as pharmaceuticals and fine chemicals. Organic electrochemistry enables the development of greener and more selective chemical processes, reducing the reliance on traditional chemical reagents and minimizing environmental

impact. This book examines the applications of organic electrochemistry in synthesis and catalysis, showcasing its potential as a valuable tool.

Print ISBN: 9781682519684 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



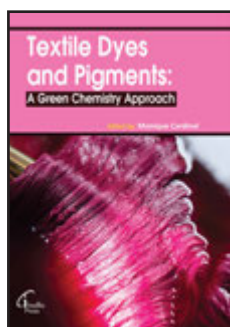
### Sample Preparation Techniques for Chemical Analysis

Editor: Weni Rosdiana

Sample preparation is the most crucial step in the analytical procedure designed for implementation in any analytical application. It is the limiting factor in chemical analysis since it is time consuming and it can potentially introduce errors. This book discusses the basics of sample preparation and examines modern techniques that can be used by both novice and expert analytical chemists. This is a must-have resource for those studying advanced analytical techniques and the role of high-performance materials in analytical chemistry.

Print ISBN: 9781682519059 | \$165 | 2023 | Hardcover |

Publisher: Intelliz Press LLC



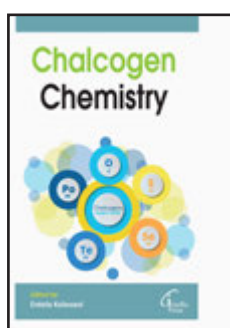
### Textile Dyes and Pigments: A Green Chemistry Approach

Editor: Monique Cardinal

Dyes and pigments are the most important colorants used to add color or to change the color of something. They are widely used in the textile, pharmaceutical, food, cosmetics, plastics, paint, ink, photographic and paper industries. Nowadays there are more than 10,000 textile dyes and pigments. Coloring or the fixation of a dye to fabric fibers is a complex chemical process. Not all the dyes and pigments themselves but additional, auxiliary chemicals are necessary for dyeing textiles. This book is devoted to the structure and properties of dyes and pigments.

Print ISBN: 9781682519073 | \$165 | 2023 | Hardcover |

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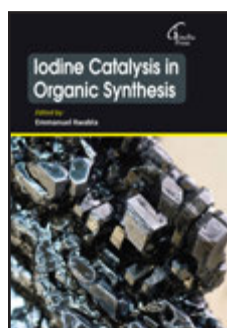
### Chalcogen Chemistry

Editor: Entela Kolovani

The oxygen family, also called the chalcogens, consists of the elements found in Group 16 of the periodic table and is considered among the main group elements. It consists of the elements oxygen, sulfur, selenium, tellurium and polonium. These can be found in nature in both free and combined states. This book provides an overview of recent developments, particularly from the last decade, on the chemistry of the chalcogen group elements (S, Se and Te).

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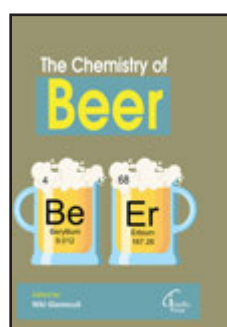
### Iodine Catalysis in Organic Synthesis

Editor: Emmanuel Kwabla

Commercially available iodine has played an important role in organic synthesis. In recent years, a large number of organic reactions have been investigated using molecule iodine-catalyzed and iodine-induced methods. Therefore, many new compounds have been synthesized using molecular iodine. Iodine is an inexpensive weak Lewis acid, non-toxic, and readily available reagent for various organic transformations and yields products with outstanding selectivity with minimum by products. The book provides detailed coverage of recent advances in iodine chemistry and catalysis, focusing on the utilization of various iodine-containing compounds as oxidative catalysts.

Print ISBN: 9781682519066 | \$165 | 2023 | Hardcover |

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### The Chemistry of Beer

Editor: Niki Giannouli

The chemical composition of beer is determined by the raw materials of brewing and by changes that occur during the malting and brewing processes. Chemically, beer can be considered as a water-ethanol solution with a pH of around 4.2 in which hundreds of different molecules are dissolved. These originate from the raw materials (water, malt, hops, adjuncts) and the wort production, fermentation and maturation processes. This updated text presents all the introductory aspects of beer brewing science into one place for undergraduate brewing science courses.

Print ISBN: 9781682519080 | \$165 | 2023 | Hardcover |

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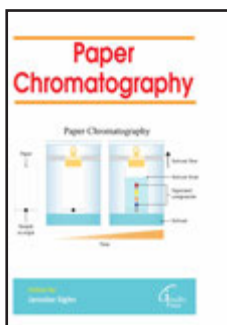
### Biodegradable Plastics

Editor: Arouna Adama

Biodegradation is the property of a material that can be completely converted into water, CO<sub>2</sub>, and biomass through the action of microorganisms such as fungi and bacteria. Biodegradable plastics have the ability to be degraded by microorganisms present in the environment by entering the microbial food chain. The environmental and socio-economic impact of plastics, government policies, standards and certifications, physico-chemical properties, and analytical techniques are covered in this book. The book also highlights the future of bioplastics, with their development and commercialization.

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Publisher: Intelliz Press LLC



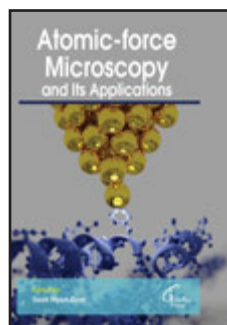
## Paper Chromatography

Editor: Jaroslav Sigler

Paper chromatography is a technique which is used to separate low-molecular-mass compounds based on their distribution between stationary phase and mobile phase. Due to its low cost and availability of various protocols for the separation of compounds, paper chromatography is considered a powerful analytical tool. This book provides a comprehensive discussion of the techniques of paper chromatography and paper electrophoresis.

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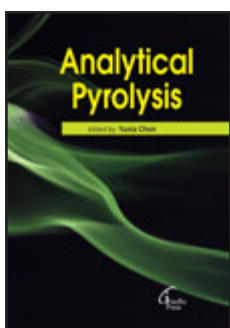
## Atomic-force Microscopy and Its Applications

Editor: Seok Hyun Eom

Atomic-force microscopy (AFM) is a surface scanning technique that has sub-nanometer scale resolution. AFM describes a group of techniques used for non-destructive surface studies at the nanoscale. They have a resolution on the order of 10<sup>3</sup> times better than optical microscopy's resolution limit. This book aims to provide the reader with a comprehensive overview of the new trends, research results and development of atomic force microscopy. This book is not only for students but also for professional engineers who are working in the industry as well as specialists.

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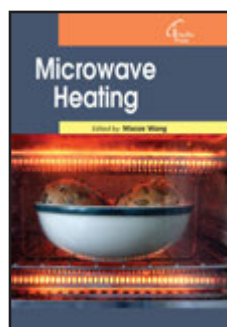
## Analytical Pyrolysis

Editor: Yuxia Chen

Analytical pyrolysis has been proven as a valuable technique for analysis and identification of polymeric materials in the failure analysis of materials used in the chemical, rubber, and automotive industries. SEM allows the exact localization of damage of components from engineering and automotive industry. The extraordinary depth of sharpness provides deeper insights into cracking propagation and mechanical failure aspects, for example, brittleness, filler- or fiber-matrix adhesion, or stress-corrosion cracking. This book illustrates how the latest advances make pyrolysis a practical, cost-effective, reliable, and flexible alternative for increasingly complex sample analyses.

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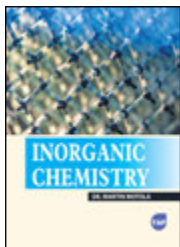
## Microwave Heating

Editor: Maoze Wang

Microwave processing is heating through the interaction of electromagnetic radiation with the "dielectric" properties of foods. These properties create polarization within a substance when exposed to an external electric field. What actually happens is the polar molecules rotate continuously to align with the electromagnetic field. This causes friction between the molecules, so heat is generated. This increases the temperature of the items in the food processing machine. This book provides a broad coverage of the theory and practice of industrial microwave heating.

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## Inorganic Chemistry

**Dr. Martin Motola**

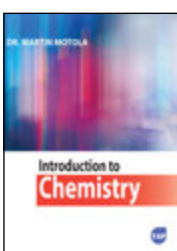
### About the Author

Martin Motola is an accomplished academic researcher who has made significant contributions to the fields of photocatalysis and atomic layer deposition. He is currently affiliated with the University of Pardubice, where his work has earned him an h-index of 9 and co-authorship of 22 publications, receiving a total of 191 citations.

With over 20 years of experience in academic research, Martin has become a well-respected member of the scientific community. His previous affiliation with Comenius University in Bratislava served as a launching pad for his career. He has since become a leading authority in the field of photocatalysis and atomic layer deposition. Martin's innovative research has pushed the boundaries of scientific knowledge, contributing to our understanding of these fields and positively impacting the world. He is a dedicated and talented researcher whose work inspires and informs the scientific community.

This text explores the fundamental principles and concepts of inorganic chemistry. The book covers topics such as chemical bonding, acids and bases, redox reactions, coordination compounds, and solid-state chemistry. It provides a comprehensive overview of the structure, properties, and reactivity of inorganic compounds. This book is an essential resource for students, researchers, and professionals in the field of chemistry who seek a deeper understanding of inorganic chemistry.

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## Introduction to Chemistry

**Dr. Martin Motola**

### About the Author

Martin Motola is an accomplished academic researcher who has made significant contributions to the fields of photocatalysis and atomic layer deposition. He is currently affiliated with the University of Pardubice, where his work has earned him an h-index of 9 and co-authorship of 22 publications, receiving a total of 191 citations.

With over 20 years of experience in academic research, Martin has become a well-respected member of the scientific community. His previous affiliation with Comenius University in Bratislava served as a launching pad for his career. He has since become a leading authority in the field of photocatalysis and atomic layer deposition. Martin's innovative research has pushed the boundaries of scientific knowledge, contributing to our understanding of these fields and positively impacting the world. He is a dedicated and talented researcher whose work inspires and informs the scientific community.

This is a comprehensive textbook that covers the basic principles and concepts of chemistry. It serves as a foundation for students who are just starting their journey in the field of chemistry. The book covers topics such as atoms, molecules, chemical reactions, stoichiometry, thermodynamics, and chemical bonding. It also includes practical applications of chemistry, such as environmental issues, energy production, and pharmaceuticals. This book is an essential resource for anyone seeking a thorough understanding of chemistry.

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## Biochemistry

**M. Bilal Hanif**

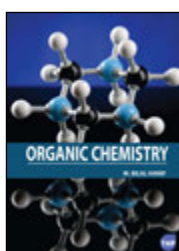
### About the Author

Muhammad Bilal Hanif is working as a research assistant at the Department of Inorganic Chemistry, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia. He obtained his graduation degree under a Chinese government scholarship at Xi'an Jiaotong University (XJTU), China. After obtaining his degree, He

worked as a researcher at XJTU from 2018-2020. His research mainly focuses on solid oxide fuel cells, photocatalysis, and solid oxide electrolysis cells for energy conversion applications. He published articles in ACS Applied Materials & Interfaces; Chemical Engineering Journal; Energy & Environmental Materials and several high-quality journals articles. He has achieved Research Fund from Comenius University Bratislava, Slovakia for Young Scientists. He is also working as a Guest editor in Materials Journal.

This text explores the chemical processes that occur in living organisms. It provides a comprehensive overview of the molecular basis of life, including topics cell biology, metabolism, genetics, and molecular biology. The book is designed to help students and researchers understand the fundamental principles of biochemistry and the complex interactions that occur within cells. Whether you are studying biochemistry for the first time or looking to deepen your knowledge, this book is an essential resource for anyone interested in the science of life.

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## Organic Chemistry

**M. Bilal Hanif**

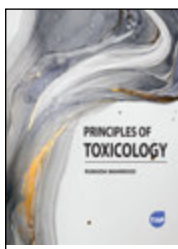
### About the Author

Muhammad Bilal Hanif is working as a research assistant at the Department of Inorganic Chemistry, Faculty of Natural Sciences, Comenius University in Bratislava, Slovakia. He obtained his graduation degree under a Chinese government scholarship at Xi'an Jiaotong University (XJTU), China. After obtaining his degree, He

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Organic Chemistry is a textbook that provides an introduction to the study of organic chemistry, the chemistry of carbon-based compounds. It covers the structure, properties, and reactions of organic molecules and their applications in the real world. The book is designed to help students develop a strong foundation in organic chemistry, including the principles of chemical bonding, stereochemistry, and reaction mechanisms. With numerous examples and practical problems, the book is a valuable resource for students and professionals as well.

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## Principles of Toxicology

**Rubaida Mahmood**

### About the Author

Rubaida Mahmood is a professional writer who has built an impressive career over the past 17 years. She has worked with clients from a variety of industries, including healthcare, finance, technology, and education, and has written everything from blog posts and articles to white papers and case studies. What sets Rubaida apart is her ability to create content that is both engaging and informative. She has a talent for weaving together complex ideas and concepts in a way that is easy for readers to understand, making her writing accessible to a broad audience. In addition to her writing skills, Rubaida is a skilled communicator and collaborator. She understands the importance of building strong relationships with her clients, and takes the time to truly understand their unique needs and goals. This allows her to create content that is tailored to their specific requirements and delivers the results they are looking for.

This text covers the basic principles of toxicology, including the nature, effects, and detection of toxic substances. It explores the mechanisms of toxicity, including the ways in which toxic substances interact with living organisms. The book also examines the different types of toxic agents and their effects on human health and the environment. It is an essential resource for toxicologists, public health officials, and environmental scientists seeking to understand the impact of toxic substances on human health and the environment.

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## Introduction to Proteomics

**Sudhir Awasthi**

### About the Author

Prof. Sudhir K. Awasthi did his M.Sc in Life Sciences securing first position in CSJM University, Kanpur. Thereafter he completed his PhD in the same discipline from CSJM University, Kanpur and joined the faculty of Life Sciences as Asstt. Professor in 1991. He became Professor in 2008 & presently working as Pro- Vice Chancellor & Dean, Faculty Life Sciences in this university. He is also holding the post of Director, Deendayal Shodh Kendra of the University campus from past one year he is also occupying the post of Co-ordinator, Recruitment & Assessment Cell (RAC) responsible for the recruitment & assessment of university faculty members. Prof. Awasthi has more than 30 years of teaching & research experience. His area of research has been Immuno-toxicology & Environmental Biochemistry. He has been widely recognized as one of those few researchers who did excellent work in the field of Mycobacterial Dormancy & the role of Heat Shock Proteins / Chaperons in its granuloma state. He has published more than 40 research papers & completed two research projects funded by DST & UPCST respectively. He is Principle Investigator of Centre of Excellence Project for Department of Life Sciences funded by UP Council of Higher Education. He is reckoned as prolific orator & popular article writer in different domains of knowledge related to higher education. He has been successful in advocating the importance of traditional Indian Knowledge System which is being re-explored in present context. He has participated in several conferences as Lead Speaker & Chaired the session in numerous seminars & symposia.

Introduction to Proteomics presents an overview of proteomics, including a discussion of the field's fundamental ideas, how to use various technologies and instruments, and examples of applications in human health and illness. This textbook provides new students and researchers with an easy-to-grasp, comprehensive review and knowledge of the concepts, guidelines, and especially the difficult instrumentation procedures in proteomics.

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## Heat Transfer Principles

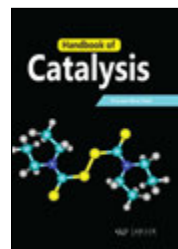
**Artem Shlyakhov Marie-Magdeleine**

### About the Author

Artem Marie-Magdeleine is a Chartered Mechanical Ph.D. engineer with 8 years of experience in turbomachinery fluid mechanics, CFD, CAD, and technical software development. He's authored five utility patents and two scientific publications, making significant contributions to the industry. Beyond his technical expertise, Artem Marie-Magdeleine is a linguist, fluent in English, French, Russian, and German, allowing him to work with diverse teams and collaborate with professionals from different parts of the world. Driven, ambitious, and committed to achieving his goals, Artem Marie-Magdeleine inspires many aspiring engineers and professionals. He believes in the power of education and continues to explore new fields of study to expand his knowledge and expertise. In short, Artem Marie-Magdeleine is a highly accomplished mechanical engineer with a remarkable track record of accomplishments. His work is a testament to his dedication, hard work, and passion for engineering.

This text covers the fundamental principles of heat transfer, including conduction, convection, and radiation. It provides readers with a thorough understanding of the mechanisms and processes involved in heat transfer, and how they apply to various engineering and industrial applications. The book also includes practical examples, problems, and solutions, making it an essential resource for students, researchers, and professionals in the field of heat transfer. Therefore, Heat Transfer Principles is a valuable reference for anyone interested in the science of heat transfer and its practical applications.

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## Handbook of Catalysis

**Praveen Bhai Patel**

### About the Author

Praveen Bhai Patel is presently working as an Assistant Professor at Dept. of Chemical Engineering, University Institute of Engineering and Technology Chhatrapati Shahu Ji Maharaj University, Kanpur, India. He has over 15 years of teaching and research experience. He has completed his Ph.D from Motilal Nehru National Institute of Technology, Allahabad, UP, India. He has published several research papers in international and national journals and has also contributed chapters in books.

The Handbook of Catalysis covers the principles of catalysis as well as contemporary ideas and applications. It covers all critical areas of this vital subject, including as homogeneous, heterogeneous, and biocatalysis, as well as kinetics, catalyst characterization and production, reactor design. The book discusses the history of heterogeneous catalysis and its relevance in the present world, surfaces and adsorption, the catalyst (production and characterization), the reactors, and catalysis applications in many areas. The Handbook of Catalysis is an indispensable reference for chemists, chemical engineers, and graduate and postgraduate students studying catalysis and reaction engineering. The ideal source of information for undergraduate and graduate students of chemical engineering and chemistry, as well as for practicing scientists looking to brush up on their skills.

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## An Overview of Inorganic Compounds

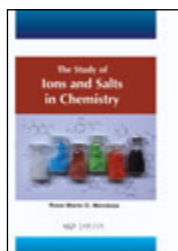
Rose Marie O. Mendoza

### About the Author

Dr. Rose obtained her PhD in Chemical Engineering from the University of the Philippines-Diliman in 2013, while her Masters in Chemical Engineering and BS Chemical Engineering degree was obtained from Adamson University. She is also a Professor in the Graduate School Department under the Master of Engineering Program at Adamson University since 2006. In 2017, she obtained her Post Doctorate Degree in Green Power: Hydrogen Generation and Fuel Cell Development from the University of California Merced, USA (in collaboration with the Energy Storage and Conversion Materials Laboratory of the University of the Philippines, Diliman). She is a visiting scientist to several universities abroad such as the University of California Merced in USA, Kindai University in Japan, National Taiwan University and Chia Nan University of Pharmacy and Science in Taiwan. She has published more than 20 research papers in water treatment and remediation, green technology, fuel cells, electrodialysis, nano-materials, high voltage spatial electricity, batteries in peer-reviewed journals, and have more than 15 textbooks published in chemical engineering and processes. As an educator, she is very active in publishing her research to local peer reviewed journals. An advocate of Climate Action, a Climate Reality Leader Corp Member and a budding Sustainability and Circularity talent, Dr. Mendoza is also presently actively engaged in several local and international Green Federation as Board Member and Officer such as the Green Party of the Philippines, and Treasurer of the Asian Pacific Federation of Green Women's Network. She is also one of the Board of Directors of the Philippine Society of Engineering Educators, Mark Energy Revolution Corporation and one of the pioneering members of the Philippine Institute of Chemical Engineers, CaMaNaVa Chapter, and an Associate Member of the National Research Council of the Philippines (NRCP).

In chemical science, an inorganic compound is a chemical compound that does not include carbon-hydrogen bonds, i.e., one it is not an organic substance. The difference, however, is not well defined, and sources have various opinions on the matter. Inorganic chemistry is a branch of science that studies inorganic substances. Inorganic Compounds is a book about inorganic chemistry that covers the physical and chemical characteristics of individual compounds in depth, with stress on the use of physical laws, investigative procedures, and theoretical analysis of experimental findings. This book delves into the synthesis, characteristics, reactions, and structural geometries of a number of compounds chosen based on the fact that their research has made significant contributions to the practice and knowledge of inorganic chemistry. The specifics of experimental techniques are usually left out. This book is a valuable resource for undergraduate and postgraduate students interested in compound physicochemical studies and inorganic chemistry breakthroughs.

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## The Study of Ions and Salts in Chemistry

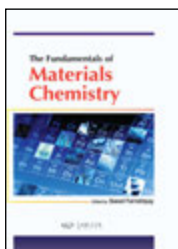
Rose Marie O. Mendoza

### About the Author

Dr. Rose obtained her PhD in Chemical Engineering from the University of the Philippines-Diliman in 2013, while her Masters in Chemical Engineering and BS Chemical Engineering degree was obtained from Adamson University. She is also a Professor in the Graduate School Department under the Master of Engineering Program at Adamson University since 2006. In 2017, she obtained her Post Doctorate Degree in Green Power: Hydrogen Generation and Fuel Cell Development from the University of California Merced, USA (in collaboration with the Energy Storage and Conversion Materials Laboratory of the University of the Philippines, Diliman). She is a visiting scientist to several universities abroad such as the University of California Merced in USA, Kindai University in Japan, National Taiwan University and Chia Nan University of Pharmacy and Science in Taiwan. She has published more than 20 research papers in water treatment and remediation, green technology, fuel cells, electrodialysis, nano-materials, high voltage spatial electricity, batteries in peer-reviewed journals, and have more than 15 textbooks published in chemical engineering and processes. As an educator, she is very active in publishing her research to local peer reviewed journals. An advocate of Climate Action, a Climate Reality Leader Corp Member and a budding Sustainability and Circularity talent, Dr. Mendoza is also presently actively engaged in several local and international Green Federation as Board Member and Officer such as the Green Party of the Philippines, and Treasurer of the Asian Pacific Federation of Green Women's Network. She is also one of the Board of Directors of the Philippine Society of Engineering Educators, Mark Energy Revolution Corporation and one of the pioneering members of the Philippine Institute of Chemical Engineers, CaMaNaVa Chapter, and an Associate Member of the National Research Council of the Philippines (NRCP).

This book bridges the gap between food scientists and chemists by providing a practical foundation to ionic chemicals and salts. It stresses the link between structure at the atomic level and the symmetry and characteristics of ionic compounds, and it discusses the fundamental concepts of architecture and bonding in ionic compounds. This is an excellent resource for anyone interested in compound chemical and ionic characteristics. The book is especially useful for those who want to learn more about the chemistry of ionic compounds and salts, with a focus on their applications. Structure, kinetics, electrochemistry, thermodynamic characteristics, synthesis, and scientific studies of ions and salts are all covered in this book. Experimental and theoretical approaches for studying this data, as well as data collecting and processing methodologies, are discussed. This book is an important addition to the future of the chemistry discipline since it is the first serious debate on the transfer of these methodologies and techniques between the many application regimes.

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## The Fundamentals of Materials Chemistry

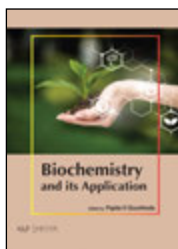
Saeed Farrokhpay

### About the Editor

Dr Saeed Farrokhpay is a Chemical Engineer with several years of experience in mineral & material processing. He obtained his PhD from University of South Australia in 2005. He is currently a Technical Consultant in Australia. He has worked for more than 20 years at mineral and chemical industries, universities and research centers around the world. Dr Farrokhpay has published more than 90 papers in high ranked journals and conference proceedings. He has also edited several technical and scientific books, and served as an editorial board member of several international scientific journals.

The need for functional material is an important issue in the modern world as they play a significant role in our everyday life. New materials are used in technological advancements such as optical, magnetic, structural, or catalytic capabilities. Due to their high importance and significance in our life, many schools offer material chemistry courses and programs around the world. However, there is still a need for a textbook that covers different materials from both structure and property perspective. This book provides in-depth technical knowledge on material chemistry and their applications. It includes fundamental and history of material, as well as chemistry and application of common advanced materials. It has 8 chapters covering fundamentals of materials chemistry, solid materials, semiconductors, polymers, carbon materials, nanomaterials, composites and finally, common material characterization techniques. The information presented in this book is useful for chemistry, physics, and engineering students. It is also particularly valuable for industry researchers as a starting point for learning about materials.

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## Biochemistry and its Application

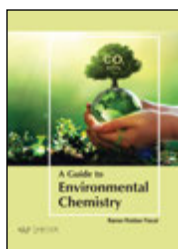
Papita H Gourkhede

### About the Editor

Dr. (Mrs). Papita H Gourkhede (1977) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani. She obtained her B. Sc. (Ag.) in 2001 from College of Agriculture, Nagpur from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. Pursued M. Sc. (Ag.) in 2007 and Ph. D. in Soil Science And Agriculture Chemistry in 2012 from Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani. She started her career as Assistant professor in 2012. Her field of specialization is soil fertility, nutrient management, micronutrients, heavy metal remediation, Remote Sensing and Organic Farming. She has published 05 books and 35 research paper in National and international journals of reputed. She has participated in many National, State Seminar and symposiums. She has written 06 practical manuals for under graduate course for the benefit of students besides this delivered several Radio talk, Lectures in farmer training programme. Dr. Papita has also written 112 popular articles in Agroone, Shetibhati, RCFsheti patrika and other reputed Magazines. She has received young Scientists award in 2016, ICAR national Award for research innovation in Dryland Agriculture in 2018, women Scientists Award in 2019, Agrocare Award in 2017, State level Best program officer award in 2020.

Biochemistry is the foundation for solving the complexity of life on earth. All living organisms on earth contains nucleic acids, lipids, carbohydrates, proteins, enzymes and hormones that are crucial for survival. Biochemistry plays essential role in understanding the mechanism, action and regulation of biomolecules in different metabolic pathways. Several analytical techniques are reported to characterize, analyse and quantify the biomolecules present in living organism. This book covers the diversity of biomolecules present in living organisms, their characterization techniques, clinical biochemistry and genetic information transfer process. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with various aspects of biochemistry so that they are updated with the information.

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## A Guide to Environmental Chemistry

Rainer Roldan Fiscal

### About the Author

Rainer Roldan Fiscal is an Associate Professor I, Research Coordinator, and Innovation and Technology Support Representative at the Laguna State Polytechnic University Siniloan Campus, Philippines. He graduated Bachelor of Secondary Education major in General Science, Master of Arts in Teaching Science and Technology, and Doctor of Philosophy in Education major in Educational Leadership and Management. He teaches Biological Science, Physical Science, and Research courses in the undergraduate and graduate teacher education programs. He presented research papers at national and international conferences in the Philippines and other countries like Malaysia, Thailand, and Vietnam. He published research articles in international journals and has citations.

Environmental chemistry involves the study of biochemical factors that exist in nature. It includes a comprehension of how the unpolluted environment functions, which naturally existing compounds are available, in what amounts, and with what impacts. Without this, it may be difficult to concentrate on the impacts on people to the environment with the discharge of chemical elements. It is a multidisciplinary science that, notwithstanding chemistry, includes physical science, agriculture, public health, sanitary engineering, material science, etc. This volume researches the sources, responses, transport, impacts, and purpose of chemical species in the air, water, and lands, and the impact of human activities on different sections, like the hydrosphere, lithosphere, and biosphere. The goal of environmental chemistry education is to edify the general population about the significance of protecting our environment, and the need to limit human activities causing indiscriminate discharge of contaminants into the environment. Currently, different environmental factors exist that threaten the existence of humanity on the planet. Some environmental chemical issues include the 1952 London smog—killing around 4000 individuals, the Mediterranean Sea transforming into the Dead Sea during the 1950s—incapable of supporting sea life, and corrosion of the white Taj Mahal marble in India.

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## Key Concepts in Biochemistry

Abeer Iqbal

### About the Author

Abeer Iqbal (M.S Microbiology and Molecular Genetics) is a polished writer with strong scientific knowledge and keen interest in biosciences. She has authored books related to her field and have also been engaged in writing medical blogs/content. She has a passion for learning and writing about scientific advancements and her enthusiasm reflects in her work. She is a nature lover and admires the importance and beauty of little things in life.

This book offers to provide a brief explanation of the key terms and concepts of Biochemistry. Biochemistry is the study of chemical processes within and relating to living organisms. A sub-discipline of both chemistry and biology, biochemistry may be divided into three fields: structural biology, enzymology and metabolism.

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## Introduction to Enzymology

**Sudhir Awasthi**

### About the Author

Prof. Sudhir K. Awasthi did his M.Sc in Life Sciences securing first position in CSJM University, Kanpur. Thereafter he completed his PhD in the same discipline from CSJM University, Kanpur and joined the faculty of Life Sciences as Asstt. Professor in 1991. He became Professor in 2008 & presently working as Pro- Vice Chancellor & Dean, Faculty Life Sciences in this university. He is also holding the post of Director, Deendayal Shodh Kendra of the University campus from past one year he is also occupying the post of Co-ordinator, Recruitment & Assessment Cell (RAC) responsible for the recruitment & assessment of university faculty members. Prof. Awasthi has more than 30 years of teaching & research experience. His area of research has been Immuno-toxicology & Environmental Biochemistry. He has been widely recognized as one of those few researchers who did excellent work in the field of Mycobacterial Dormancy & the role of Heat Shock Proteins / Chaperons in its granuloma state. He has published more than 40 research papers & completed two research projects funded by DST & UPCST respectively. He is Principle Investigator of Centre of Excellence Project for Department of Life Sciences funded by UP Council of Higher Education. He is reckoned as prolific orator & popular article writer in different domains of knowledge related to higher education. He has been successful in advocating the importance of traditional Indian Knowledge System which is being re- explored in present context. He has participated in several conferences as Lead Speaker & Chaired the session in numerous seminars & symposia.

Introduction to Enzymology provides an overview of enzymes, including a description of the field's essential concepts, how to use various technologies and equipment, and examples of applications in human health and disease. This textbook presents new students and researchers with an easy-to-understand, complete overview and understanding of proteomics ideas, guidelines, and, in particular, complex instrumentation techniques.

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## Acidity and Basicity in Chemistry

**Saeed Farrokhpay**

### About the Editor

Dr Saeed Farrokhpay is a Chemical Engineer with several years of experience in mineral & material processing. He obtained his PhD from University of South Australia in 2005. He is currently a Technical Consultant in Australia. He has worked for more than 20 years at mineral and chemical industries, universities and research centers around the world. Dr Farrokhpay has published more than 90 papers in high ranked journals and conference proceedings. He has also edited several technical and scientific books, and served as an editorial board member of several international scientific journals.

Acids and bases are natural components that serve critical functions in health and business. They are used in the production of common household products such as salad dressings, carbonated soft drinks, bathroom and kitchen cleansers, and fertilizers. However, these chemicals may have dramatic effects, as seen in Venus' sulfuric acid clouds and grave wax, a natural material found in soil that mummifies human and animal and remains. This book examines these interesting, yet diametrically contrasting compounds in further detail, providing solid, real-world examples and several vivid graphics. Based on the notion that the most, if not all, reactions in organic and inorganic chemistry can be explained using variants of fundamental acid-base principles, this book gives a framework for learning the topic that transcends memorization. By utilizing a variety of strategies to foster relational knowledge, it enables students to thoroughly grasp the fundamental ideas of organic chemistry.

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## Modern Toxicology and Developments

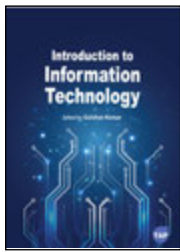
**Sudhir Awasthi**

### About the Author

Prof. Sudhir K. Awasthi did his M.Sc in Life Sciences securing first position in CSJM University, Kanpur. Thereafter he completed his PhD in the same discipline from CSJM University, Kanpur and joined the faculty of Life Sciences as Asstt. Professor in 1991. He became Professor in 2008 & presently working as Pro- Vice Chancellor & Dean, Faculty Life Sciences in this university. He is also holding the post of Director, Deendayal Shodh Kendra of the University campus from past one year he is also occupying the post of Co-ordinator, Recruitment & Assessment Cell (RAC) responsible for the recruitment & assessment of university faculty members. Prof. Awasthi has more than 30 years of teaching & research experience. His area of research has been Immuno-toxicology & Environmental Biochemistry. He has been widely recognized as one of those few researchers who did excellent work in the field of Mycobacterial Dormancy & the role of Heat Shock Proteins / Chaperons in its granuloma state. He has published more than 40 research papers & completed two research projects funded by DST & UPCST respectively. He is Principle Investigator of Centre of Excellence Project for Department of Life Sciences funded by UP Council of Higher Education. He is reckoned as prolific orator & popular article writer in different domains of knowledge related to higher education. He has been successful in advocating the importance of traditional Indian Knowledge System which is being re- explored in present context. He has participated in several conferences as Lead Speaker & Chaired the session in numerous seminars & symposia.

This book "Modern Toxicology and its Developments" provides an overview of toxicology, including the description of the essential theories, technologies and tools. Different examples of toxicology applications in human health are thoroughly discussed in this text. Toxicology is a scientific subject that overlaps with biology, chemistry, pharmacology, and medicine and entails the study of the harmful effects of chemical compounds on living organisms as well as the practice of detecting and treating toxins and toxicants exposures. Toxicology actively assists cancer research since some toxins may be used as medications to destroy tumor cells. Ribosome-inactivating proteins, which have been studied in leukemia treatment, are a classic example of this. This textbook presents new students and researchers with an easy-to-understand, complete overview and understanding of toxicological ideas, recommendations, and, in particular, complex instrumentation methods. This offers an authoritative perspective on the science and its future. The knowledge of toxicity and mechanisms of toxicity play an important role in different industries including pharmaceuticals, food industry, agriculture, chemical industry. This handbook also illustrates the health impacts of metals, petroleum products, paper and pulp industry waste, air pollutants, and animal poisons. This book is equally beneficial for students, teachers and researchers in the field of toxicology. Moreover, this book is also a good resource for environmentalists and policy makers.

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## Introduction to Information Technology

**Gulshan Kumar**

### About the Editor

Gulshan Kumar received his MCA degree from Guru Nanak Dev University, Amritsar (Punjab), India, in 2001, and a Doctorate from IKG Punjab Technical University, Jalandhar (Punjab) -India, in 2014. He has 22 years of teaching experience. He has 70+ international and national publications to his name. His research interests involve Artificial Intelligence, Network Security, Machine Learning and Databases. He has supervised 06 Research scholars for their Master's degree thesis and supervising 06 scholars for their PhD degrees. Currently, he is working as an Associate Professor and Head of the Department of Computer Applications at Shaheed Bhagat Singh, State University, Ferozepur (Punjab)-India.

Information Technology (IT) refers to the use of computers, software, and telecommunications equipment to store, retrieve, transmit, and manipulate data, often in the context of business or other organizational operations. This book presents the fundamentals of information technology. The book aims to provide readers with a thorough understanding of the basic concepts and principles of information technology. It is an ideal textbook for students of computer science and related fields, as well as a useful reference for professionals in the industry. The book emphasizes the practical applications of information technology, providing real-world examples and case studies to illustrate key concepts. It is written in a clear and concise style, making it accessible to readers with varying levels of technical expertise.

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## Information Technology Project Management

**Robert Martirosyan**

### About the Author

Robert Martirosyan completed his Master's in Means of Communication and Telecommunication from the State Engineering University of Armenia in 2000. His first, Bachelor, rank, in the field of Radiotechnic and Communication, was secured at the State Engineering University of Armenia in 1998, he has been graded a diploma with excellence. In the course of his studies at the University he worked as an installation engineer in "AATV communications" from 1998 to 2000, where he installed and supported the MMDS (Microwave Multipoint Distribution System / Multichannel Multipoint Distribution Service), CATV (Cable Television) and Broadcast television systems. After studying at the university he was called into the army. After military service, he continued to work in the telecommunications and IT/ICT sectors, worked as an engineer, then as head of the infrastructure department, next up to Deputy Director on Technical Affairs and Deputy Director on Infrastructure Design and Planning. Robert Martirosyan has about 20 years of experience in the networking and telecommunications sector, particularly designing, engineering and leading many projects for networks and infrastructures such as Fiber Optics networks (FTTH, FTTB, FTTC, FTTN, P2P, P2MP, CWDM, PON/EPON, etc.), other wired and structured cabling networks (PEN, etc.), wireless networks, IP cameras network (NVR system), global (WAN, SD-WAN, etc.) and local (LAN, etc.) networks.

This text provides a comprehensive guide to managing IT projects effectively. It covers topics such as project planning, risk management, team building, communication, and project evaluation. The book is written to help IT professionals navigate the challenges of project management and develop effective strategies to deliver successful IT projects. Whether you are a project manager or a member of an IT project team, this book is an essential resource for anyone looking to succeed in the field of IT project management.

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## Computer Systems Application

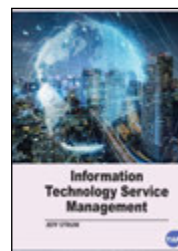
**Viktor Borodin**

### About the Editor

Viktor Borodin is Computer Science PhD at T.Shevchenko Kyiv National University, Kyiv, Ukraine. His interest areas are lying on the composite domains of AI and CS: medical image processing, machine learning, data analysis and Applied Mathematics: computational geometry, differential equations, number theory. Viktor Borodin is the author of several papers in the fields of Math and Computer Engineering and has 20+ years of teaching experience to engineering and math graduates and postgraduates, and 10+ years of practical SW programming.

Computer systems application refers to the utilization of software and hardware components to perform various tasks and activities such as data processing, communication, entertainment, and business operations. This textbook covers the fundamental concepts of computer systems and their applications in various fields. It provides an in-depth understanding of computer architecture, operating systems, networking, and database management systems. With its practical approach, Computer Systems Application equips readers with the knowledge and skills needed to design, develop, and implement computer-based systems. It serves as a valuable resource for students of computer science, software engineering, and related fields, as well as professionals in the technology industry who wish to enhance their knowledge and skills.

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## Information Technology Service Management

**Jeff Struik**

### About the Author

Jeff is a seasoned cybersecurity professional with a decade of experience working in the defense industry. He has a Doctor of Computer Science with a concentration in cybersecurity, and holds several industry certifications including CISSP, PenTest+, and Network+. Throughout his career, Jeff has developed a passion for conducting research and development pertaining to cybersecurity tools. He thrives on staying at the forefront of the industry, constantly seeking out new and innovative solutions to keep networks secure. Despite his impressive credentials and extensive experience, Jeff remains dedicated to sharing his knowledge and expertise with others. He has a deep-seated love of teaching and takes great joy in helping others to better understand the importance of cybersecurity. Whether he is working with colleagues in the industry or sharing his insights with students and other learners, Jeff is a true cybersecurity professional who is committed to advancing the field and making the digital world a safer place for all.

This text is a comprehensive guide to the management of IT services in organizations. It covers topics such as service strategy, service design, service transition, service operation, and continual service improvement. The book is designed to help IT professionals develop effective strategies for delivering high-quality IT services that meet the needs of their organizations. It is an essential resource for anyone involved in IT service management, including IT managers, service desk staff, and IT consultants.

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## Cyber Security

**Dr. Iqra Ameer**

### About the Author

Iqra Ameer is an Assistant Professor at Penn State University, PA, USA. She received her Ph.D. in computer science with Distinction from the Instituto Politécnico Nacional, Mexico in 2022. During her Ph.D., she focused on multi-label emotion classification on code-mixed and monolingual text. She has extensive experience in tackling various challenges related to social media text, such as emotion classification, mental health illness, fake news, hate speech, toxic speech detection, and author profiling. Additionally, she has worked on suicide tendency prediction during her postdoc at Yale University and the University of Texas at Houston using clinical text. With her expertise in NLP, she has published several papers in top-tier conferences and journals.

This text provides an in-depth overview of the ever-evolving field of cybersecurity. It covers a range of topics, including information security, network security, cryptography, and ethical hacking. The book is designed to help individuals and organizations understand the threats and vulnerabilities that exist in the digital world, and to develop strategies to protect themselves from cyber-attacks. Whether you are an IT professional, a business owner, or just someone interested in the topic, this book is an essential resource for anyone looking to enhance their understanding of cybersecurity.

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## Fundamentals of Programming

**Mir Shehzad Ahmad**

### About the Author

Mir Shahzad Ahmad is an accomplished information security expert with over seven years of experience in the field. With a passion for cybersecurity and a drive to keep individuals and businesses safe from cyber threats, Mir has become a respected authority in his field. Mir's expertise lies in understanding the ever-changing landscape of cyber threats and developing effective strategies to mitigate risks.

He has worked with a wide range of clients, from small businesses to multinational corporations, helping them to safeguard their data and systems. Throughout his career, Mir has developed a reputation for his ability to communicate complex cybersecurity concepts in a clear and concise manner. He has authored numerous articles on the subject and is a sought-after speaker at conferences and events. Mir is also an experienced educator, having trained a number of individuals and organizations on best practices in cybersecurity. He holds several certifications in the field, including CISSP, CEH, and CISM. Mir is dedicated to helping businesses and individuals stay ahead of the curve when it comes to cybersecurity. His insights and expertise make him a valuable resource for anyone looking to protect themselves from cyber threats.

This text is a comprehensive guide to computer programming, covering the basic principles, concepts, and techniques of programming. The book provides a detailed overview of programming languages, algorithms, data structures, and software development methodologies. With clear explanations and practical examples, this book is an excellent starting point for anyone interested in learning programming fundamentals. It is an essential resource for students and professionals who want to develop their programming skills and enhance their understanding of computer science.

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## Computer Networking

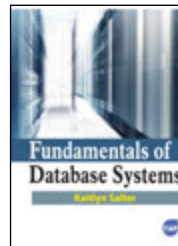
**Zeeshan Qaiser**

### About the Author

Zeeshan Qaiser is a dynamic and accomplished professional with over 15 years of experience in the fields of IT, project management, and business development. He is currently serving as the CEO of Axondevs, a leading software development company based in Islamabad, Pakistan. Zeeshan's passion for technology and entrepreneurship led him to co-found Axondevs in 2013, which has since grown into a highly respected and sought-after firm in the software industry. Under his leadership, the company has successfully completed numerous projects for clients in Pakistan, the Middle East, Europe, and the United States. Prior to founding Axondevs, Zeeshan worked as a project manager and IT consultant for several prestigious organizations in Pakistan and the United States. He holds a bachelor's degree in computer science from the University of Central Punjab and a master's degree in business administration from the University of Illinois at Urbana-Champaign. Zeeshan is a forward-thinking and results-driven leader who is constantly seeking new opportunities to innovate and grow. His expertise in software development, project management, and business development, combined with his exceptional communication and leadership skills, make him an invaluable asset to any organization.

This text explores the fundamentals of networking technology and its applications in modern computing. The book covers topics such as network architectures, protocols, security, and wireless networking. It is designed to provide readers with a comprehensive understanding of how computer networks function and how they can be configured and managed effectively. Whether you are a student, a professional, or an enthusiast in the field of computer networking, this book is an essential resource for gaining knowledge and expertise in this dynamic and rapidly evolving field.

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## Fundamentals of Database Systems

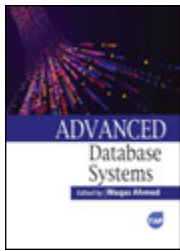
**Kaitlyn Salter**

### About the Author

Kaitlyn Salter is an accomplished marketing professional with over a decade of experience in the industry. She currently serves as the Director of Marketing at a leading digital agency, where she oversees the development and execution of marketing strategies for a diverse range of clients. Kaitlyn's expertise spans a wide range of marketing disciplines, including digital marketing, branding, social media, content marketing, and advertising. Her extensive knowledge of industry trends and consumer behavior allows her to develop effective campaigns that drive engagement, conversions, and ROI. Prior to her current role, Kaitlyn worked as a Marketing Manager at several leading companies, where she honed her skills in brand development, campaign management, and customer acquisition. She has also worked as a freelance consultant, helping businesses of all sizes to create and execute effective marketing strategies. Kaitlyn holds a Bachelor of Science in Marketing from the University of California, Los Angeles (UCLA), where she graduated with honors. She is a member of several professional organizations, including the American Marketing Association (AMA) and the Digital Marketing Association (DMA).

This book covers various aspects of database systems such as data modeling, relational databases, SQL programming, database design, and database administration. It is an essential resource for students and professionals in computer science and information technology who are interested in developing their knowledge of database systems. The book is designed to provide a clear and concise overview of the fundamentals of database systems, making it an excellent starting point for anyone looking to enter the field.

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## Advanced Database Systems

**Waqas Ahmed**

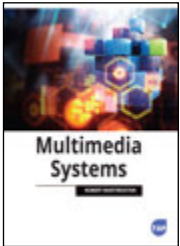
### About the Editor

Waqas Ahmed completed his Ph.D in Cyber security from East London University in 2022. He was awarded for academic excellence in his Master's degree. He qualified data scientist in January 2020. He has more than 5 years of teaching and research experience at different universities. Waqas Ahmed published 5 research papers, 3 conference papers, and 1 book chapter in well-established journals.

He works in the area of computer networks, system security, and programming. He loves to read and share interesting aspects of computer science in books. In his free time, he loves to travel and explore and give talks on spirituality, ancient customs, and traditions.

This book provides an in-depth study of the advanced concepts and technologies in database systems. It covers topics such as distributed databases, object-oriented databases, data mining, and big data analytics. The book is written for students and professionals in the field of computer science who want to enhance their knowledge and skills in advanced database technologies. This book will provide you with a solid understanding of the latest developments in database systems and their applications.

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## Multimedia Systems

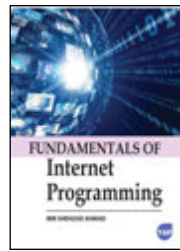
**Robert Martirosyan**

### About the Author

Robert Martirosyan completed his Master's in Means of Communication and Telecommunication from the State Engineering University of Armenia in 2000. His first, Bachelor, rank, in the field of Radiotechnic and Communication, was secured at the State Engineering University of Armenia in 1998, he has been graded a diploma with excellence. In the course of his studies at the University he worked as an installation engineer in "AATV communications" from 1998 to 2000, where he installed and supported the MMDS (Microwave Multipoint Distribution System / Multichannel Multipoint Distribution Service), CATV (Cable Television) and Broadcast television systems. After studying at the university he was called into the army. After military service, he continued to work in the telecommunications and IT/ICT sectors, worked as an engineer, then as head of the infrastructure department, next up to Deputy Director on Technical Affairs and Deputy Director on Infrastructure Design and Planning. Robert Martirosyan has about 20 years of experience in the networking and telecommunications sector, particularly designing, engineering and leading many projects for networks and infrastructures such as Fiber Optics networks (FTTH, FTTB, FTTC, FTTN, P2P, P2MP, CWDM, PON/EPON, etc.), other wired and structured cabling networks (PEN, etc.), wireless networks, IP cameras network (NVR system), global (WAN, SD-WAN, etc.) and local (LAN, etc.) networks.

This text covers the design, development, and implementation of multimedia applications and systems. The book explores various topics such as multimedia hardware and software, digital media representation and compression, multimedia communication, and multimedia databases. It is an essential resource for students and professionals in the field of multimedia, providing a thorough understanding of the principles and practices of multimedia systems. This book will equip you with the knowledge and skills needed to create and manage multimedia systems in a rapidly evolving technological landscape.

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## Fundamentals of Internet Programming

**Mir Shehzad Ahmad**

### About the Author

Mir Shahzad Ahmad is an accomplished information security expert with over seven years of experience in the field. With a passion for cybersecurity and a drive to keep individuals and businesses safe from cyber threats, Mir has become a respected authority in his field. Mir's expertise lies in understanding the ever-changing landscape of cyber threats and developing effective strategies to mitigate risks. He has worked with a wide range of clients, from small businesses to multinational corporations, helping them to safeguard their data and systems. Throughout his career, Mir has developed a reputation for his ability to communicate complex cybersecurity concepts in a clear and concise manner. He has authored numerous articles on the subject and is a sought-after speaker at conferences and events. Mir is also an experienced educator, having trained a number of individuals and organizations on best practices in cybersecurity. He holds several certifications in the field, including CISSP, CEH, and CISM. Mir is dedicated to helping businesses and individuals stay ahead of the curve when it comes to cybersecurity. His insights and expertise make him a valuable resource for anyone looking to protect themselves from cyber threats.

This text introduces readers to the basic principles of programming for the internet. It covers essential topics such as web development, client-server architecture, database management, and security. The book is written for beginners who have little to no experience in programming and want to learn how to develop websites and web applications. With clear explanations and practical examples, this book is an excellent starting point for anyone interested in internet programming.

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## Computer Graphics

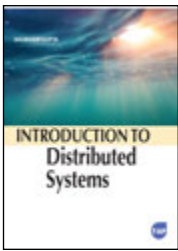
**Hamza Zubair**

### About the Author

Hamza Zunzuniya is a dynamic and passionate professional with a track record of success in the field of digital marketing. With over five years of experience in the industry, Hamza has developed a strong skillset in SEO, SEM, social media marketing, and content creation. After earning his Bachelor's degree in Business Administration from the University of Mumbai, Hamza began his career as a digital marketing intern at a leading agency in the city. He quickly demonstrated his talent and was promoted to the role of Digital Marketing Manager within a year. Over the course of his career, Hamza has worked with a diverse range of clients, from small startups to large multinational corporations. He has consistently delivered outstanding results, helping his clients to increase their online visibility, drive traffic to their websites, and generate leads. In addition to his work in digital marketing, Hamza is also an accomplished writer and blogger. He has contributed articles to a number of leading publications in the industry and has established a strong personal brand online. Hamza is a true professional who is committed to excellence in everything he does. He is a natural leader who inspires his team to achieve their full potential, and he is always looking for new and innovative ways to help his clients succeed. If you are looking for a dedicated and talented digital marketing professional, Hamza Zunzuniya is the ideal choice.

This book introduces readers to the world of digital art and design. It explores the principles, techniques, and tools used to create images and animations on a computer. The book covers topics such as 2D and 3D graphics, rendering, shading, and lighting. It is an essential resource for students, artists, and designers looking to expand their knowledge and skills in the field of computer graphics. With the growing demand for digital media, this book is a valuable asset for anyone interested in creating visually stunning graphics and animations.

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## Introduction to Distributed Systems

**Shubham Gupta**

### About the Author

Shubham Gupta is a highly skilled software engineer with over seven years of experience in the field. He holds a Master's degree in Software Engineering from KIET Group of Institutes, where he gained a deep understanding of software development methodologies and best practices. Throughout his career, Shubham has worked with a variety of clients, from small startups to large corporations. He is dedicated to delivering high-quality software solutions that meet the unique needs of his clients and help them achieve their business goals. Shubham is well-versed in a wide range of programming languages, frameworks, and technologies. He has a particular expertise in web development, and has worked on numerous projects involving the development of web-based applications and services. In addition to his technical skills, Shubham is also a strong communicator and team player. He enjoys collaborating with other professionals to develop solutions that are both technically sound and user-friendly. Shubham is passionate about his work and is always looking for ways to improve his skills and stay up-to-date with the latest industry trends and technologies. His commitment to excellence has earned him a reputation as a trusted and reliable software engineer.

This book provides a comprehensive overview of the fundamental principles, concepts, and technologies of distributed computing. It covers various topics including the architecture of distributed systems, communication protocols, distributed file systems, distributed databases, and distributed algorithms. The book is written to help readers understand the complexities of distributed systems and how to design and develop distributed applications that are reliable, scalable, and efficient. This book is an essential text for understanding the concepts and principles of distributed systems.

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## Software Design

**Dr. Bechoo Lal**

### About the Author

Bechoo Lal, PhD, became a Member (M) of IAENG: International Association of Engineers, USA with membership (108820) in 2010, a Senior Member (SM) in 2019. I am doctorate PhD in Computer Science, PhD-Information System from University of Mumbai, Master from Banaras Hindu University (BHU), PGP- Data Science from Purdue University, USA. Currently working as a Associate Professor in Department of Computer Science & Engineering, KLEF- KL University Vijayawada Campus Andhra Pradesh, India. His research areas are data science, big data analytics and Machine Learning.

This book is a comprehensive guide to the principles and practices of designing software systems. It covers topics such as software architecture, design patterns, object-oriented design, and software development methodologies. The book is intended for software developers, architects, and project managers who want to learn how to design effective software systems. By following the guidelines provided in this book, readers can create software that is maintainable, scalable, and adaptable to changing requirements.

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## Computer Fundamentals

**Gulshan Kumar**

### About the Editor

Gulshan Kumar received his MCA degree from Guru Nanak Dev University, Amritsar (Punjab), India, in 2001, and a Doctorate from IKG Punjab Technical University, Jalandhar (Punjab) -India, in 2014. He has 22 years of teaching experience. He has 70+ international and national publications to his name. His research interests involve Artificial Intelligence, Network Security, Machine Learning and Databases. He has supervised 06 Research scholars for their Master's degree thesis and supervising 06 scholars for their PhD degrees. Currently, he is working as an Associate Professor and Head of the Department of Computer Applications at Shaheed Bhagat Singh, State University, Ferozepur (Punjab)-India.

Computer Fundamentals is an introductory book that provides a comprehensive understanding of the basic principles and concepts of computers. The book covers a wide range of topics, including computer hardware, software, operating systems, and networks. It also explores the evolution of computers and their impact on society. The book is written for beginners with little or no prior knowledge of computers and is an essential resource for anyone looking to develop a fundamental understanding of computer technology.

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## Information Security and CCP Scheme

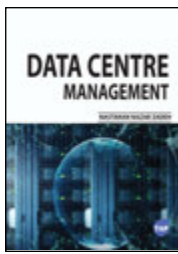
**Waqas Ahmed**

### About the Editor

Waqas Ahmed completed his Ph.D in Cyber security from East London University in 2022. He was awarded for academic excellence in his Master's degree. He qualified data scientist in January 2020. He has more than 5 years of teaching and research experience at different universities. Waqas Ahmed published 5 research papers, 3 conference papers, and 1 book chapter in well-established journals. He works in the area of computer networks, system security, and programming. He loves to read and share interesting aspects of computer science in books. In his free time, he loves to travel and explore and give talks on spirituality, ancient customs, and traditions.

The Cyber Certified Professional (CCP) scheme certifies your ability to enforce cyber security knowledge and expertise in real-world situations. The book is designed to help information security professionals understand the CC scheme and how it can be used to evaluate and certify the security of IT products. Whether you are involved in information security management or product development, this book is an essential resource for understanding the CCP scheme and its role in information security.

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## Data Centre Management

**Nastaran Nazar Zadeh**

### About the Author

Nastaran Nazar Zadeh is a highly experienced computer engineer, researcher, and advisor in the fields of robotics, artificial intelligence and computer science. She holds a Master of Science in Computer Engineering from Mapua University of the Philippines and pursued her Ph.D. in Electronic Engineering at the same institution. With over seven years of teaching experience, Nastaran has taught electronic and computer engineering programs at several reputable academic institutions, where she has also led numerous thesis studies. Her research focuses on developing robotics systems with A.I. and machine learning, which enables her to stay up-to-date with the latest advancements in the field and implement cutting-edge technologies.

This text provides an overview of the principles and practices involved in managing and operating data centers. It covers topics such as data center design, infrastructure management, virtualization, cloud computing, and security. The book is intended for IT professionals and data center managers who are responsible for the operation and maintenance of data centers. It provides valuable insights and best practices for optimizing data center performance, reliability, and efficiency.

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## Principles of Internet Technologies

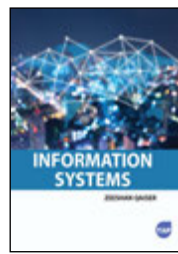
**Hamza Zubair**

### About the Author

Hamza Zunzuniya is a dynamic and passionate professional with a track record of success in the field of digital marketing. With over five years of experience in the industry, Hamza has developed a strong skillset in SEO, SEM, social media marketing, and content creation. After earning his Bachelor's degree in Business Administration from the University of Mumbai, Hamza began his career as a digital marketing intern at a leading agency in the city. He quickly demonstrated his talent and was promoted to the role of Digital Marketing Manager within a year. Over the course of his career, Hamza has worked with a diverse range of clients, from small startups to large multinational corporations. He has consistently delivered outstanding results, helping his clients to increase their online visibility, drive traffic to their websites, and generate leads. In addition to his work in digital marketing, Hamza is also an accomplished writer and blogger. He has contributed articles to a number of leading publications in the industry and has established a strong personal brand online. Hamza is a true professional who is committed to excellence in everything he does. He is a natural leader who inspires his team to achieve their full potential, and he is always looking for new and innovative ways to help his clients succeed. If you are looking for a dedicated and talented digital marketing professional, Hamza Zunzuniya is the ideal choice.

This book deals with the basic principles, concepts, and protocols that underpin the Internet. It provides an overview of the technologies used to build the Internet and how they work together to create a global network. The book covers topics such as web technologies, network protocols, security, and mobile computing. It is a valuable resource for anyone interested in understanding the technology behind the Internet and how it has evolved to become an essential part of modern life.

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## Information Systems

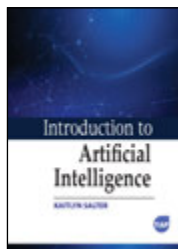
**Zeeshan Qaiser**

### About the Author

Zeeshan Qaiser is a dynamic and accomplished professional with over 15 years of experience in the fields of IT, project management, and business development. He is currently serving as the CEO of Axondevs, a leading software development company based in Islamabad, Pakistan. Zeeshan's passion for technology and entrepreneurship led him to co-found Axondevs in 2013, which has since grown into a highly respected and sought-after firm in the software industry. Under his leadership, the company has successfully completed numerous projects for clients in Pakistan, the Middle East, Europe, and the United States. Prior to founding Axondevs, Zeeshan worked as a project manager and IT consultant for several prestigious organizations in Pakistan and the United States. He holds a bachelor's degree in computer science from the University of Central Punjab and a master's degree in business administration from the University of Illinois at Urbana-Champaign. Zeeshan is a forward-thinking and results-driven leader who is constantly seeking new opportunities to innovate and grow. His expertise in software development, project management, and business development, combined with his exceptional communication and leadership skills, make him an invaluable asset to any organization.

Information Systems is a comprehensive text to the design, development, and management of information systems. The book covers topics such as system analysis and design, database management, computer networks, security, and decision support systems. The book also explores emerging trends in information systems, such as cloud computing, big data, and artificial intelligence. It is written to help students and professionals understand how information systems can be used to support business operations and achieve strategic objectives.

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## Introduction to Artificial Intelligence

**Kaitlyn Salter**

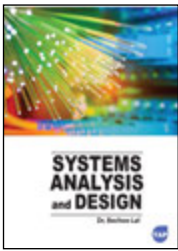
### About the Author

Kaitlyn Salter is an accomplished marketing professional with over a decade of experience in the industry. She currently serves as the Director of Marketing at a leading digital agency, where she oversees the development and execution of marketing strategies for a diverse range of clients. Kaitlyn's expertise spans a wide range of marketing disciplines, including digital marketing, branding, social media, content marketing, and advertising. Her extensive knowledge of industry trends and consumer behavior allows her to develop effective campaigns that drive engagement, conversions, and ROI. Prior to her current role, Kaitlyn worked as a Marketing Manager at several leading companies, where she honed her skills in brand development, campaign management, and customer acquisition. She has also worked as a freelance consultant, helping businesses of all sizes to create and execute effective marketing strategies. Kaitlyn holds a Bachelor of Science in Marketing from the University of California, Los Angeles (UCLA), where she graduated with honors. She is a member of several professional organizations, including the American Marketing Association (AMA) and the Digital Marketing Association (DMA).

This text explores the fundamental concepts and techniques of AI. It covers topics such as problem-solving, knowledge representation, natural language processing, machine learning, and robotics. The book is written to provide a comprehensive introduction to the field of AI, including its applications and ethical considerations. This book is an essential resource for a student, researcher, or practitioner in the field of AI gaining a solid understanding of this rapidly evolving field.

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## Systems Analysis and Design

**Dr. Bechoo Lal**

### About the Author

Bechoo Lal, PhD. became a Member (M) of IAENG: International Association of Engineers, USA with membership (108820) in 2010, a Senior Member (SM) in 2019. I am doctorate PhD in Computer Science, PhD-Information System from University of Mumbai, Master from Banaras Hindu University (BHU), PGP- Data Science from Purdue University, USA. Currently working as a Associate Professor in Department of Computer Science & Engineering, KLEF- KL University Vijayawada Campus Andhra Pradesh, India. His research areas are data science, big data analytics and Machine Learning.

This book explores the process of developing effective and efficient information systems. It covers topics such as requirements gathering, system design, implementation, and maintenance. The book provides a structured approach to systems development and emphasizes the importance of understanding business processes and user needs. This book is a valuable resource for anyone involved in systems analysis and design.

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## Object Oriented Programming

**Motopeda Oluyide**

### About the Author

Motopeda Oluyide is a highly experienced business professional with over 17 years of expertise in the oil and gas industry. He currently serves as the Managing Director of East & West African Gas Pipeline Company, where he oversees the strategic direction and growth of the company. Motopeda started his career at British American Tobacco as a Sales Representative and later joined African Petroleum Plc, where he held various roles, including Operations Officer and Sales Manager. He then moved to the oil and gas industry, working as a Business Development Manager at Petrofac and a Project Manager at Saipem. Throughout his career, Motopeda has received several awards and recognition for his contributions to the energy industry, including being named one of the Top 100 Oil and Gas Leaders in Africa by Energy Capital & Power in 2019. Motopeda holds a Bachelor's degree in Chemical Engineering from the University of Lagos and a Master's degree in Business Administration from the Lagos Business School. He is a member of the Nigerian Society of Engineers and the Project Management Institute. Motopeda is passionate about mentoring young professionals and supporting community development initiatives.

This text introduces readers to the principles and concepts of object-oriented programming. It covers topics such as classes, objects, inheritance, encapsulation, and polymorphism. The book provides a hands-on approach to learning programming and includes examples in various programming languages. This book is a valuable resource for understanding the fundamental principles of object-oriented programming and applying them to real-world problems.

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## Web Engineering

**Dr. Iqra Ameer**

### About the Author

Iqra Ameer is an Assistant Professor at Penn State University, PA, USA. She received her Ph.D. in computer science with Distinction from the Instituto Politécnico Nacional, Mexico in 2022. During her Ph.D., she focused on multi-label emotion classification on code-mixed and monolingual text. She has extensive experience in tackling various challenges related to social media text, such as emotion classification, mental health illness, fake news, hate speech, toxic speech detection, and author profiling. Additionally, she has worked on suicide tendency prediction during her postdoc at Yale University and the University of Texas at Houston using clinical text. With her expertise in NLP, she has published several papers in top-tier conferences and journals.

This textbook focuses on the development of large-scale web-based applications, websites, and software systems. It covers various topics such as web design, web programming, web testing, and web project management. The book is an essential resource for software engineers, web developers, project managers, and anyone involved in the development of web-based applications. It provides readers with a comprehensive understanding of the process of web engineering and the skills required to develop high-quality web-based systems.

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## Operating Systems

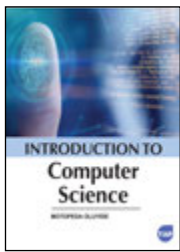
**Nastaran Nazar Zadeh**

### About the Author

Nastaran Nazar Zadeh is a highly experienced computer engineer, researcher, and advisor in the fields of robotics, artificial intelligence and computer science. She holds a Master of Science in Computer Engineering from Mapua University of the Philippines and pursued her Ph.D. in Electronic Engineering at the same institution. With over seven years of teaching experience, Nastaran has taught electronic and computer engineering programs at several reputable academic institutions, where she has also led numerous thesis studies. Her research focuses on developing robotics systems with A.I. and machine learning, which enables her to stay up-to-date with the latest advancements in the field and implement cutting-edge technologies.

This book provides a comprehensive overview of the core principles and functionality of computer operating systems. The book covers various topics, including process management, memory management, file systems, device management, and security. It is written to provide readers with a deeper understanding of how operating systems work and how they can be used to optimize computer performance. This book is an essential resource for understanding the intricacies of operating systems.

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## Introduction to Computer Science

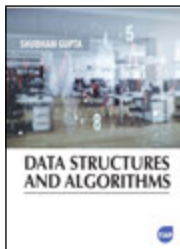
**Motopeda Oluyide**

### About the Author

Motopeda Oluyide is a highly experienced business professional with over 17 years of expertise in the oil and gas industry. He currently serves as the Managing Director of East & West African Gas Pipeline Company, where he oversees the strategic direction and growth of the company. Motopeda started his career at British American Tobacco as a Sales Representative and later joined African Petroleum Plc, where he held various roles, including Operations Officer and Sales Manager. He then moved to the oil and gas industry, working as a Business Development Manager at Petrofac and a Project Manager at Saipem. Throughout his career, Motopeda has received several awards and recognition for his contributions to the energy industry, including being named one of the Top 100 Oil and Gas Leaders in Africa by Energy Capital & Power in 2019. Motopeda holds a Bachelor's degree in Chemical Engineering from the University of Lagos and a Master's degree in Business Administration from the Lagos Business School. He is a member of the Nigerian Society of Engineers and the Project Management Institute. Motopeda is passionate about mentoring young professionals and supporting community development initiatives.

This text is a comprehensive guide to the basic principles and concepts of computer science. The book covers a wide range of topics, from computer hardware and software to programming languages and algorithms. It is written to provide readers with a solid foundation in computer science, regardless of their background or level of experience. The book is an excellent resource for anyone interested in learning about the field of computer science, including students, professionals, and hobbyists.

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## Data Structures and Algorithms

**Shubham Gupta**

### About the Author

Shubham Gupta is a highly skilled software engineer with over seven years of experience in the field. He holds a Master's degree in Software Engineering from KIET Group of Institutes, where he gained a deep understanding of software development methodologies and best practices. Throughout his career, Shubham has worked with a variety of clients, from small startups to large corporations. He is dedicated to delivering high-quality software solutions that meet the unique needs of his clients and help them achieve their business goals. Shubham is well-versed in a wide range of programming languages, frameworks, and technologies. He has a particular expertise in web development, and has worked on numerous projects involving the development of web-based applications and services. In addition to his technical skills, Shubham is also a strong communicator and team player. He enjoys collaborating with other professionals to develop solutions that are both technically sound and user-friendly. Shubham is passionate about his work and is always looking for ways to improve his skills and stay up-to-date with the latest industry trends and technologies. His commitment to excellence has earned him a reputation as a trusted and reliable software engineer.

This book introduces the fundamental concepts of data structures and algorithms. It covers topics such as arrays, linked lists, stacks, queues, trees, graphs, sorting, searching, and hashing. The book is written to help students and professionals in computer science and programming understand how to use data structures and algorithms to solve complex problems efficiently. Whether you are a beginner or an experienced programmer, this book provides valuable insights into the world of data structures and algorithms.

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## Software Testing and User Experience

**Nastaran Nazar Zadeh**

### About the Author

Nastaran Nazar Zadeh is a highly experienced computer engineer, researcher, and advisor in the fields of robotics, artificial intelligence and computer science. She holds a Master of Science in Computer Engineering from Mapua University of the Philippines and pursued her Ph.D. in Electronic Engineering at the same institution. With over seven years of teaching experience, Nastaran has taught electronic and computer engineering programs at several reputable academic institutions, where she has also led numerous thesis studies. Her research focuses on developing robotics systems with A.I. and machine learning, which enables her to stay up-to-date with the latest advancements in the field and implement cutting-edge technologies.

This book explores the relationship between software testing and user experience. It provides an overview of the importance of user experience in software testing and the impact it has on software development. The book covers various techniques and strategies for testing software to ensure optimal user experience, including usability testing, accessibility testing, and performance testing. Whether you are a software developer, tester, or UX designer, this book is a valuable resource for improving the quality and user-friendliness of your software applications.

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## Project and Programme Management

**Fabio A. Guilherme da Silva**

### About the Author

Fabio Guilherme da Silva is an academic, analyst, and software developer with over 25 years of experience in the field. He obtained a Bachelor's in Mathematics (with a specialisation in Informatics) from the State University of Rio de Janeiro (UERJ) in 1994, and began working as a software developer and business analyst right away. He worked on projects for numerous companies in Brazil, including giants such as TV Globo, Halliburton, UBS, and the government of the State of Rio de Janeiro. In 2010, he obtained his Master's in Information Systems from the Federal University of the State of Rio de Janeiro (UNIRIO), and in 2015, a Doctorate in Computer Science from the Pontifical Catholic University of Rio de Janeiro (PUC-Rio). His research was dedicated to the use of artificial intelligence in games and interactive storytelling, and for both of these latest two degrees, he was awarded a full scholarship from the Brazilian government. During his doctoral degree, he worked as a researcher at ICAD/IGames/VisionLab at PUC-Rio, producing reports that helped win some game copyright infringement cases in court, including one for Zynga. In 2012, he was awarded an Honourable Mention (Interactivity) by the International Telecommunication Union (ITU) for his work. He then worked as a lecturer at PUC-Rio and FUCAPE Business School before leaving Brazil in 2018 to work for companies in Argentina, Germany, the USA, and the UAE. He currently lives in Portugal where he works as a researcher and assistant professor at the European University of Lisbon, focusing his research and teaching on Artificial Intelligence, Games, and Programming Languages. In addition to his pursuits in Computer Science and IT, Fabio also holds a diploma in International Relations and is fluent in eight languages. In his free time, he enjoys travelling, sports and playing music, having already toured and played in multiple countries in Europe and the Americas.

This book covers the principles, tools, and techniques of managing projects and programs effectively. It provides practical guidance for planning, executing, and controlling projects and programs, including risk management, stakeholder engagement, and quality assurance. The book also explores the importance of leadership and communication skills for successful project and program management. This book is a valuable resource for an experienced project manager or a novice, improving the skills and achieving project success.

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## Implementing Automated Software Testing

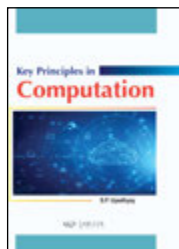
**Neha Kaul**

### About the Author

Neha Kaul is an experienced software consultant and technical author currently residing in Sydney, Australia. She is the author of five technical books: *Object Oriented Programming with Java*, *Logging Frameworks in Java*, *Applications of Data Mining in Engineering, Management and Medicine*, *Software Security: Building Secure Software Applications* and *Analytic Methods of Systems and Software Testing*. She received her double Master's Degree in Computer and Communication Networks and Information Technology from Telecom SudParis and University Paris-Saclay in 2016. She is a recipient of the prestigious Telecom Scholarship for Excellence provided by Fondation Telecom, France. She received the Bachelor of Engineering degree in Computer Engineering from the University of Pune, India in 2011. From 2011 to 2014, she was employed as a Software Engineer with Geometric Ltd, Pune, India. Her major avenues of research include *Advanced Java/J2EE frameworks*, *Automation Testing*, *Software Quality*, *Software Security*, *Logging Frameworks*, *Project Management and Leadership*.

The field of software testing has grown considerably since its origin in the early 1900s. The relevance of software will only increase in the future. Software will continue to increase in complexity as it is going to be used to solve the biggest problems faced by the world. Effective testing is thought of as a measure of efficiency and quality of software. Testing is a vital non-skippable step in the software development lifecycle. The implementation of different automated software systems will be presented in detail. Detailed practical implementations of automated software applications covering different types of testing scenarios have been provided in this book.

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## Key Principles in Computation

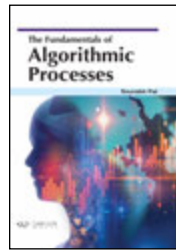
**S.P. Upadhyay**

### About the Author

Dr. Satya Prakash Upadhyay holds Ph.D. in Computer Science from DDU Gorakhpur University, Gorakhpur (U.P.), 2013. He has Technical/Teaching Experience (15 Years 08 Months) in DDU Gorakhpur University, Gorakhpur (UP). He has been the member of Academic/Administrative Committees. He has also participated in a large number on seminars/workshops/conferences, presented papers/keynote address and chaired technical sessions. He has authored several books. His areas of interest are *Integrating University Administration with IT*, *Research on Pattern Recognition/Optimization of Algorithms/Big data analysis*, and *Innovation in Examination System*.

A new framework for computing understanding: a consistent set of principles that spans technologies, domains, algorithms, architectures, and designs. This novel textbook introduces the fundamental principles necessary for a one-semester undergraduate course in computing theory. It provides the most accessible and motivating course material for undergraduate computer theory classes available. Aimed at students who may struggle to grasp the course's relevance to their future jobs, the text assists them in becoming more acquainted with the procedures necessary for advanced study of computer science. Students will be motivated by the book's numerous examples, exercises, and comprehensive proofs that simplify complicated theory.

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## The Fundamentals of Algorithmic Processes

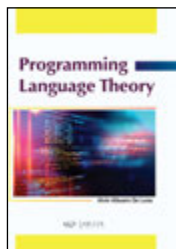
**Sourabh Pal**

### About the Author

Sourabh Pal received his M.Sc. in Computer Science in 1996 and obtained his Ph.D in 2002. He then joined the Department of Computer Applications, VBS Purvanchal University, Jaunpur as a Lecturer. Currently, he is working as Professor. He has authored more than 100 research papers in SCI/Scopus in international/national conference/journals as well as authored four books and also guided many research scholars in computer science/applications. He is an active member of CSI, Society of Statistics and Computer Applications and working as editor, member of editorial board for more than 15 international journals. His research interests include *bioinformatics*, *machine learning*, *data mining*, and *artificial intelligence*.

This book focuses on the creative elements of algorithmic design by delving into the phases involved in algorithm creation. The conceptual underpinnings of this creative process are analogous to the invention and development of mathematical theorems that result in the induction of combinatorial algorithms. Numerous issue examples are included in the book. It is intended to enhance readers' problem-solving abilities by imparting a grasp of the fundamental ideas behind algorithmic design. This book summarizes the most widely used computer algorithms and provides a comprehensive overview of algorithms and data structures for searching, sorting, and graph processing. The algorithms presented in this book represent a body of knowledge that has developed over the previous five decades and has become critical not just for professional programmers and computer scientists, but also for all students interested in mathematics, data science, and engineering. The reader of this book is meant to get knowledge about known ways for successfully resolving difficulties. They will become acquainted with various cutting-edge data structures and novel methods for utilizing data structures to improve the efficacy of algorithms. Because the book is virtually self-contained, it may be used as a course book, reference book, or self-study resource.

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## Programming Language Theory

**Alvin Albuero De Luna**

### About the Author

Alvin Albuero De Luna is an IT educator at the Laguna State Polytechnic University under the College of Computer Studies, which is located in the Province of Laguna, in Philippines. He earned his Bachelor of Science in Information Technology from STI College and his Master of Science in Information Technology from Laguna State Polytechnic University. He was also a holder of two (2) National Certifications from TESDA (Technical Education and Skills Development Authority), namely NC II - Computer Systems Servicing, and NC III - Graphics Design. And he is also a Passer of Career Service Professional Eligibility given by the Civil Service Commission of the Philippines.

The book "Theory of Programming Language" thoroughly examines the subject and various real-world applications of computer technology. Programming language theory is an area of computer science that focuses on the creation, execution, analysis, characterization, and classification of formal programming languages. This comprehensive text introduces the ideas, methods, and sophisticated instrumentation techniques used in programming for beginning computer science students and researchers. This book also provides a reliable study of the programming language and projects its future evolution. It does a fantastic job of giving an overview of the numerous issues addressed in the theory that underpins programming languages. The readers of this handbook can easily understand the fundamental principles that constitute the basis for the philosophy of programming languages. This is because the material is organized and presented in a reader-friendly way. This book is a valuable resource for students, professors, and developers interested in programming language and its theory.

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## Data Analysis and Information Processing

**Jovan Pehceviski**

### About the Editor

Jovan currently works as a presales Technology Consultant at Dell Technologies. He is a result-oriented technology leader with demonstrated subject matter expertise in planning, architecting and managing ICT solutions to reflect business objectives and achieve operational excellence. Jovan has broad deep technical knowledge in the fields of data center and big data technologies, combined with consultative selling approach and exceptional client-facing presentation skills. Before joining Dell Technologies in 2017, Jovan spent nearly a decade as a researcher, university professor and IT business consultant. In these capacities, he served as a trusted advisor to a multitude of customers in financial services, health care, retail, and academic sectors. He holds a PhD in Computer Science from RMIT University in Australia and worked as a post-doctoral visiting scientist at the renowned INRIA research institute in France. He is a proud father of two, an aspiring tennis player, and an avid Science Fiction/Fantasy book reader."

This book covers different topics from data analysis and information processing, including data analytics methods, big data methods, data mining methods, and information processing methods. Section 1 focuses on data analytics methods, describing data analytics in mental healthcare, a case study on data analytics and machine learning accuracy, a survey from a big data perspective on data modeling and data analytics, big data analytics for business intelligence in accounting and audit, and a knowledge-based approach on big data analytics in immunology. Section 2 focuses on big data methods, describing an integrated real-time big data stream sentiment analysis service, the influence of big data analytics in the industry, big data usage in the marketing information systems, a review of big data for organizations, and an application research of big data technology in audit field. Section 3 focuses on data mining methods, describing a short review of classification algorithms accuracy for data prediction in data mining applications, different data mining approaches based on medical text data, the benefits and challenges of data mining in electronic commerce, and a research study on realization of petrophysical data mining based on big data technology. Section 4 focuses on information processing methods, describing application of spatial digital information fusion technology in information processing of national traditional sports, effects of quality and quantity of information processing on design coordination performance, a neural network optimization method and its application in information processing, and information processing features that can detect behavioral regimes of dynamical systems.

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## Dissecting Computer Architecture

**Alvin Albuero De Luna**

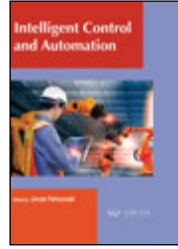
### About the Author

Alvin Albuero De Luna is an IT educator at the Laguna State Polytechnic University under the College of Computer Studies, which is located in the Province of Laguna, in Philippines. He earned his Bachelor of Science in Information Technology from STI College and his Master of Science in Information Technology from Laguna State Polytechnic University. He was also a holder of two (2)

National Certifications from TESDA (Technical Education and Skills Development Authority), namely NC II - Computer Systems Servicing, and NC III - Graphics Design. And he is also a Passer of Career Service Professional Eligibility given by the Civil Service Commission of the Philippines.

This book explains the fundamental technologies and components used in modern processors and computer architectures and how varied architectural choices culminate in computer configurations that are optimal for certain applications. To put it nicely, modern computers are sophisticated gadgets. Nevertheless, when examined hierarchically, the roles of each degree of complexity become apparent. We will cover a large number of subjects in this book and will only be able to investigate each of them to a limited extent due to space constraints. Our objective is to present a comprehensive overview of each significant technology and subsystem found in a modern digital device and to explain how they interact with other system components.

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## Intelligent Control and Automation

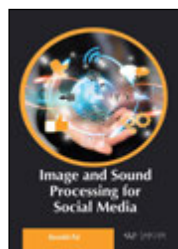
**Jovan Pehceviski**

### About the Editor

Jovan currently works as a presales Technology Consultant at Dell Technologies. He is a result-oriented technology leader with demonstrated subject matter expertise in planning, architecting and managing ICT solutions to reflect business objectives and achieve operational excellence. Jovan has broad deep technical knowledge in the fields of data center and big data technologies, combined with consultative selling approach and exceptional client-facing presentation skills. Before joining Dell Technologies in 2017, Jovan spent nearly a decade as a researcher, university professor and IT business consultant. In these capacities, he served as a trusted advisor to a multitude of customers in financial services, health care, retail, and academic sectors. He holds a PhD in Computer Science from RMIT University in Australia and worked as a post-doctoral visiting scientist at the renowned INRIA research institute in France. He is a proud father of two, an aspiring tennis player, and an avid Science Fiction/Fantasy book reader."

This book covers different topics from intelligent control and automation, including intelligent control methods, fuzzy control techniques, neural networks-based control, and intelligent control applications. Section 1 focuses on intelligent control methods, describing automatic intelligent control system based on intelligent control algorithm, intelligent multi-agent based information management methods to direct complex industrial systems, a design method of intelligent ropeway type line changing robot based on lifting force control and synovial film controller, and a summary of PID control algorithms based on AI-enabled embedded systems. Section 2 focuses on fuzzy control techniques, describing an adaptive fuzzy sliding mode control scheme for robotic systems, an adaptive backstepping fuzzy control based on type-2 fuzzy system, a fuzzy PID control for respiratory systems, a parameter varying PD control for fuzzy servo mechanism, and a robust fuzzy tracking control scheme for robotic manipulators with experimental verification. Section 3 focuses on neural networks-based control, describing neural network supervision control strategy for inverted pendulum tracking control, a neural PID control strategy for networked process control, a control loop sensor calibration using neural networks for robotic control, a feedforward nonlinear control using neural gas network, and a stable adaptive neural control of a robot arm. Section 4 focuses on intelligent control applications, describing ship steering control based on quantum neural network, a human-simulating intelligent PID control, an intelligent situational control of small turbojet engines, and a technical review of an antilock-braking systems (ABS) control.

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## Image and Sound Processing for Social Media

**Sourabh Pal**

### About the Author

Sourabh Pal received his M.Sc. in Computer Science in 1996 and obtained his Ph.D in 2002. He then joined the Department of Computer Applications, VBS Purvanchal University, Jaunpur as a Lecturer. Currently, he is working as Professor. He has authored more than 100 research papers in SCI/Scopus in international/national conference/journals as well as authored four books and also guided many research scholars in computer science/applications. He is an active member of CSI, Society of Statistics and Computer Applications and working as editor, member of editorial board for more than 15 international journals. His research interests include bioinformatics, machine learning, data mining, and artificial intelligence.

Image and Sound Processing for Social Media is an essential guide for anyone looking to understand the basics of picture and sound processing. This book provides a comprehensive overview of the topic, covering everything from the foundations of image and sound processing to the latest developments in the field. With eight informative chapters, Image & Sound Processing is a must-read for anyone interested in this fascinating subject. The key objective of this book is to provide an introduction to fundamental concepts and methods for image and sound processing for social media and to lay the framework for future study and research in this area. This book is suitable for audience from all fields who are involved in social media image and sound processing.

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## The Domain Theory in Computer Science

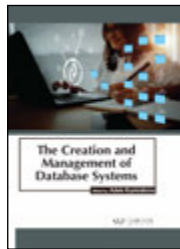
**Jovan Pehceviski**

### About the Editor

Jovan currently works as a presales Technology Consultant at Dell Technologies. He is a result-oriented technology leader with demonstrated subject matter expertise in planning, architecting and managing ICT solutions to reflect business objectives and achieve operational excellence. Jovan has broad deep technical knowledge in the fields of data center and big data technologies, combined with consultative selling approach and exceptional client-facing presentation skills. Before joining Dell Technologies in 2017, Jovan spent nearly a decade as a researcher, university professor and IT business consultant. In these capacities, he served as a trusted advisor to a multitude of customers in financial services, health care, retail, and academic sectors. He holds a PhD in Computer Science from RMIT University in Australia and worked as a post-doctoral visiting scientist at the renowned INRIA research institute in France. He is a proud father of two, an aspiring tennis player, and an avid Science Fiction/Fantasy book reader."

This book covers different topics from domain theory in computer science, including: partial orders and groups, power domains and metrics, recursive data types (binary trees) and algebraicity and Boolean algebras. Section 1 focuses on partial orders and groups, describing characterizations and properties of a new partial order, natural partial orders on transformation semigroups with fixed sets, cyclic soft groups and their applications on groups, and factorization of groups involving symmetric and alternating groups. Section 2 focuses on power domains and metrics, describing FS+ domains, topology of GB-metric spaces, incoherency problems in a combination of description logics and rules, and metrics for multiset-theoretic subgraphs. Section 3 focuses on recursive data types (binary trees), describing binary tree's recursion traversal algorithm and its improvement, the design of the minimum spanning tree algorithms, generating tree-lists by fusing individual tree detection and nearest neighbor imputation using airborne LIDAR data, a recursive approach to the Kaufman bracket, and a novel multiway splits decision tree for multiple types of data. Section 4 focuses on algebraicity and Boolean algebras, describing the deformation theory of structure constants for associative algebras, the Boolean algebra and central Galois algebras, the addition of sets in Boolean space as well as algebra and geometry of sets in Boolean space, and a multipath detection using Boolean satisfiability techniques.

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## The Creation and Management of Database Systems

**Adele Kuzmiakova**

### About the Editor

Adele Kuzmiakova is a machine learning engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele currently works as a senior machine learning engineer at Ifolor focusing on creating engaging photo stories and products. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. Some of the deep learning problems Adele worked on include predicting air quality from public webcams, developing a real-time human movement tracking, and using 3D computer vision to create 3D avatars from selfies in order to bring online clothes shopping closer to reality. She is also passionate about exchanging ideas and inspiring other people and acted as a workshop organizer at Women in Data Science conference in Geneva, Switzerland.

This book on creation and management of database systems provides an in-depth analysis of several real-world examples of database applications. This textbook offers a clear and comprehensive overview of the fundamentals, principles, and, in particular, sophisticated instrumentation techniques used in database systems. It discusses the database as an essential component of a software system, as well as a valuable, mission critical corporate resource. The book examines different database concepts, principles, design, implementation, and management challenges. Each chapter is carefully divided into concise, reader-friendly chunks, with itemization of the key elements to remember. It solves database system challenges in a methodical and pragmatic manner. Diagrams and pictures can also be used to summarise key topics in order to improve learning. This book does an outstanding job of providing an overview of the many different aspects of database systems. The book is intended for all the readers from multidisciplinary backgrounds.

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## The Role of Communication in Computer Science

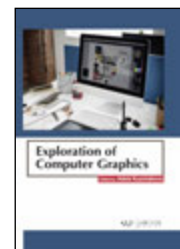
**Jocelyn O. Padallan**

### About the Author

Ms. Jocelyn O. Padallan is a graduate of the Bachelor of Science in Computer Science and finished her Certificate of Teaching Proficiency Program at Laguna State Polytechnic University - Los Banos Laguna. She also completed her Master in Educational Management. Currently, Ms. Jocelyn O. Padallan is an IT Professor at the Laguna State Polytechnic University - Los Banos Campus under the College of Computer Studies (CCS) where she holds different professional courses such as Effective and Business Communication and Programming Languages. She is actively involved in the college extension services programs including Life Project 4 Youth and ITeach 4 Heroes.

"The book on the role of communication in computer science gives an in-depth information about the roles of communication in computer science. The process of transmitting data, instructions, and information from one computer to another or between several computers is referred to as "computer communications." The process of transmitting data, instructions, or information is started by the devices that are doing the sending. This textbook offers an understandable introduction to the concepts, rules, and, in particular, the sophisticated instrumentation techniques used in computer communication, making it ideal for students and researchers just starting in the field. This book also comprehensively reviews the current and future developments in computer communications. This book differs significantly from previous standard works on computer communications in numerous ways. To understand computer communications, the first step is to learn the fundamentals of computer communication, which is heavily influenced by human interaction. The second step is to apply these concepts in increasingly realistic scenarios. The approach of this textbook has various advantages, but arguably the most important is that it provides information that will remain relevant for decades."

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## Exploration of Computer Graphics

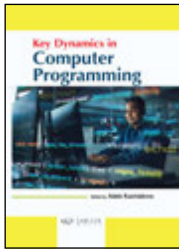
**Adele Kuzmiakova**

### About the Editor

Adele Kuzmiakova is a machine learning engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele currently works as a senior machine learning engineer at Ifolor focusing on creating engaging photo stories and products. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. Some of the deep learning problems Adele worked on include predicting air quality from public webcams, developing a real-time human movement tracking, and using 3D computer vision to create 3D avatars from selfies in order to bring online clothes shopping closer to reality. She is also passionate about exchanging ideas and inspiring other people and acted as a workshop organizer at Women in Data Science conference in Geneva, Switzerland.

"The book "Exploration of Computer Graphics" walks students through the process of creating their own interactive graphics application. The text demonstrates step-by-step how to apply computer graphics concepts and theory to real-world practical applications. Each chapter focuses on a different component of computer graphics, such as 3D modelling and lighting. This book delivers extensive knowledge since it follows the straight and narrow path through what is essential for understanding how images are displayed on screens using the complementary approaches of ray tracing and rasterization. Ray tracing is the simplest method for producing images of 3D situations, and it is addressed first, followed by the mathematical machinery required for the graphics pipeline, and lastly, the channel itself. This handbook teaches students how to handle 3D geometric transformations, texturing, complicated lighting effects, and other topics. This hands-on technique encourages students to sketch the elements and effects required to make a visually appealing application, such as computer games or software. This book is suitable for the readers from diverse backgrounds. Teachers, students, graphic designers, and software houses can benefit from the contents of this book.

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## Key Dynamics in Computer Programming

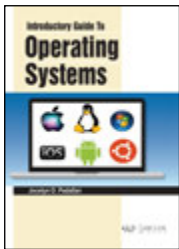
Adele Kuzmiakova

### About the Editor

Adele Kuzmiakova is a machine learning engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele currently works as a senior machine learning engineer at Ifolor focusing on creating engaging photo stories and products. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. Some of the deep learning problems Adele worked on include predicting air quality from public webcams, developing a real-time human movement tracking, and using 3D computer vision to create 3D avatars from selfies in order to bring online clothes shopping closer to reality. She is also passionate about exchanging ideas and inspiring other people and acted as a workshop organizer at Women in Data Science conference in Geneva, Switzerland.

The Key Dynamics in Computer Science gives readers an integrated and rigorous tour into the overall computer architecture, including its hardware and software components. The book takes a refreshing, ground-level approach to allow the students to gain a clear picture of how computers work. Designed and supported with numerous real-world illustrations, the book leads students through 8 chapters that gradually build a basic hardware platform coupled with modern operating system hierarchy from the ground up. Additionally, this volume delved deeper into modern programming languages, including Python and C. All in all, it is a fantastic reference for emerging technical professions and supports them to gain a thorough understanding of the modern computer hardware and software components.

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## Introductory Guide to Operating Systems

Jocelyn O. Padallan

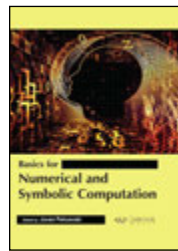
### About the Author

Ms. Jocelyn O. Padallan is a graduate of the Bachelor of Science in Computer Science and finished her Certificate of Teaching Proficiency Program at Laguna State Polytechnic University - Los Banos Laguna. She also completed her Master in Educational Management. Currently, Ms. Jocelyn O. Padallan is an IT Professor at the Laguna State Polytechnic University - Los Banos Campus under the College of Computer Studies (CCS) where she holds different professional courses such as Effective and Business Communication and Programming Languages. She is actively involved in the college extension services programs including Life Project 4 Youth and ITeach 4 Heroes.

An operating system (OS) consists of programs that regulate the implementation of application programs, and serving as a go between of the client and PC hardware. The operating system manages the computer hardware systems well as giving a structure for applications to run. A few examples referenced in the volume are: Windows, Windows/NT, OS/2 and MacOS. The volume presents OS as advantageous and simple to use for the client, and makes handling client issues simpler. For a PC to begin running-for example, when it is organized or rebooted-it must have a primary program to run. This core system, or bootstrap program, will in general be straightforward. Normally, it is put in read-only memory (ROM) or digitally erasable read-only memory (EEPROM), referred by overall term firmware, inside the PC equipment. It launches all parts of the framework, from CPU catalogs to device regulators to memory elements. In multiprogramming systems, the OS determines which cycle gets the processor when and the duration. This capacity is known as process planning. The volume discusses an Operating System as doing these activities:

- Keeps check of processor and process status of interaction.
- Allocates the processor (CPU) to a function, and
- De-assigns processors whenever a cycle is not generally needed.

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## Basics for Numerical and Symbolic Computation

Jovan Pehcevski

### About the Editor

Jovan currently works as a presales Technology Consultant at Dell Technologies. He is a result-oriented technology leader with demonstrated subject matter expertise in planning, architecting and managing ICT solutions to reflect business objectives and achieve operational excellence. Jovan has broad deep technical knowledge in the fields of data center and big data technologies, combined with consultative selling approach and exceptional client-facing presentation skills. Before joining Dell Technologies in 2017, Jovan spent nearly a decade as a researcher, university professor and IT business consultant. In these capacities, he served as a trusted advisor to a multitude of customers in financial services, health care, retail, and academic sectors. He holds a PhD in Computer Science from RMIT University in Australia and worked as a post-doctoral visiting scientist at the renowned INRIA research institute in France. He is a proud father of two, an aspiring tennis player, and an avid Science Fiction/Fantasy book reader."

This book covers topics from numerical and symbolic computing, including the main numerical and symbolic methods, schemes and applications. Section 1 focuses on numerical computing methods, describing matrix differential equations for solving systems of linear algebraic equations, a numerical problem encryption for high-performance computing applications, a numerical verification method of solutions for elliptic variational inequalities, a trigonometric numerical integrator for solving first order ordinary differential equation, and augmented Lagrangian methods for numerical solutions to higher order differential equations. Section 2 focuses on symbolic computing methods, describing a learning network assisted by means of symbolic computation, multiple factorial analysis of symbolic data, combining symbolic tools with interval analysis, and application to solve robust control problems, symbolic and graphical computations of a class of slightly perturbed equations. Section 3 focuses on numerical computing applications, describing non-negativity preserving numerical algorithms for problems in mathematical finance, a continuum approach using numerical simulations of microscale gas flows, numerical methods in electro-cardiology, numerical simulation of the blood flow through a brain vascular aneurysm with an artificial stent using the SPH method, and numerical modeling of soil water flow and nitrogen dynamics in a tomato field irrigated with municipal wastewater. Section 4 focuses on symbolic computing applications, describing symbolic time series analysis and its application in social sciences, application of symbolic computation in nonlinear differential-difference equations, symbolic modelling of dynamic human motions, and a framework for bridging the gap between symbolic and non-symbolic AI.

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## Information and Coding Theory in Computer Science

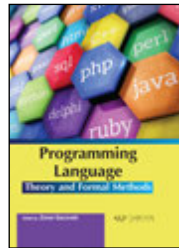
Zoran Gacovski

### About the Editor

Dr. Zoran Gacovski's current position is a full professor at the Faculty of Technical Sciences, "Mother Tereza" University, Skopje, Macedonia. His teaching subjects include Software engineering and Intelligent systems, and his areas of research are: information systems, intelligent control, machine learning, graphical models (Petri, Neural and Bayesian networks), and human-computer interaction. Prof. Gacovski has earned his PhD degree at Faculty of Electrical engineering, UKIM, Skopje. In his career he was awarded by Fulbright postdoctoral fellowship (2002) for research stay at Rutgers University, USA. He has also earned best-paper award at the Baltic Olympiad for Automation control (2002), US NSF grant for conducting a specific research in the field of human-computer interaction at Rutgers University, USA (2003), and DAAD grant for research stay at University of Bremen, Germany (2008 and 2012). The projects he took an active participation in, are: "A multimodal human-computer interaction and modelling of the user behaviour" (for Rutgers University, 2002-2003) - sponsored by US Army and Ford; "Development and implementation of algorithms for guidance, navigation and control of mobile objects" (for Military Academy – Skopje, 1999-2002); "Analytical and non-analytical intelligent systems for deciding and control of uncertain complex processes" (for Macedonian Ministry of Science, 1995-1998). He is the author of 3 books (including international edition "Mobile Robots"), 20 journal papers, over 40 Conference papers, and he is also a reviewer/ editor for IEEE journals and Conferences.

This book covers different topics from information theory methods and approaches, block and stream coding, lossless data compression, and information and Shannon entropy. Section 1 focuses on information theory methods and approaches, describing information theory of cognitive radio system, information theory and entropies for quantized optical waves in complex time-varying media, some inequalities in information theory using Tsallis entropy, and computational theory of intelligence: information entropy. Section 2 focuses on block and stream coding, describing block-split array coding algorithm for long-stream data compression, bit-error aware lossless image compression with 2d-layer-block coding, beam pattern scanning (BPS) versus space-time block coding (STBC) and space-time trellis coding (STTC), partial feedback based orthogonal space-time block coding with flexible feedback bits, and rate-less space-time block codes for 5g wireless communication systems. Section 3 focuses on lossless data compression, describing lossless image compression technique using combination methods, new results in perceptually lossless compression of hyperspectral images, lossless compression of digital mammography using base switching method, and lossless image compression based on multiple-tables arithmetic coding. Section 4 focuses on information and Shannon entropy, describing entropy as universal concept in sciences, Shannon entropy - axiomatic characterization and application, Shannon entropy in distributed scientific calculations on mobiles ad-hoc networks (MANETs), the computational theory of intelligence: information entropy, and advancing Shannon entropy for measuring diversity in systems.

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## Programming Language Theory and Formal Methods

Zoran Gacovski

### About the Editor

Dr. Zoran Gacovski's current position is a full professor at the Faculty of Technical Sciences, "Mother Tereza" University, Skopje, Macedonia. His teaching subjects include Software engineering and Intelligent systems, and his areas of research are: information systems, intelligent control, machine learning, graphical models (Petri, Neural and Bayesian networks), and human-computer interaction. Prof. Gacovski has earned his PhD degree at Faculty of Electrical engineering, UKIM, Skopje. In his career he was awarded by Fulbright postdoctoral fellowship (2002) for research stay at Rutgers University, USA. He has also earned best-paper award at the Baltic Olympiad for Automation control (2002), US NSF grant for conducting a specific research in the field of human-computer interaction at Rutgers University, USA (2003), and DAAD grant for research stay at University of Bremen, Germany (2008 and 2012). The projects he took an active participation in, are: "A multimodal human-computer interaction and modelling of the user behaviour" (for Rutgers University, 2002-2003) - sponsored by US Army and Ford; "Development and implementation of algorithms for guidance, navigation and control of mobile objects" (for Military Academy – Skopje, 1999-2002); "Analytical and non-analytical intelligent systems for deciding and control of uncertain complex processes" (for Macedonian Ministry of Science, 1995-1998). He is the author of 3 books (including international edition "Mobile Robots"), 20 journal papers, over 40 Conference papers, and he is also a reviewer/ editor for IEEE journals and Conferences.

In this book - we present topics from: formal grammars in programming, programming languages semantics, finite automata, and formal methods and semantics in distributed software. Section 1 focuses on formal methods in programming, describing integrating formal methods in XP (extreme programming) - a conceptual solution, formal methods for commercial, applications issues vs. solutions, why formal methods are considered for safety critical systems, and integration of UML sequence diagram with formal specification methods-a formal solution based on Z. Section 2 focuses on programming languages semantics, describing declarative programming with temporal constraints, in the language CG, Lolisa: formal syntax and semantics for a subset of the solidity programming language in mathematical tool coq, ontology of domains. ontological description software engineering domain - the standard life cycle, guidelines based software engineering for developing software components, intelligent agent based mapping of software requirement specification to design model. Section 3 focuses on finite automata, describing the equivalent conversion between regular grammar and finite automata, controllability, reachability, and stabilizability of finite automata: a controllability matrix method, bounded model checking of ETL cooperating with finite and looping automata connectives, an automata-based approach to pattern matching, tree automata for extracting consensus from partial replicas of a structured document. Section 4 focuses on formal methods and semantics in distributed software, describing building requirements semantics for networked software interoperability, formal semantics of OWL-s with rewrite logic, web semantic and ontology, web services conversation adaptation using conditional substitution semantics of application domain concepts.

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## Advance Cyber Security

**Manmohan Singh, Priyanka Sharma, Rahul Sharma and Monika Vyas**

### About the Authors

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*Priyanka Sharma, PhD, is currently working as a Professor (IT) and Dean (Research and Publications) at Rashtriya Raksha University. She has also worked as I/C Director (Research and Development), Raksha Shakti University and Head of IT and TC Department, and Director of SITAICS. She has more than 22 years of experience in teaching, admin, and research at the PG level. Also, she has served as visiting faculty at a few eminent institutes like Gujarat Police Academy Karai, Gujarat University, Nirma University, SIRD, etc. Her academic qualifications include a Master's in Computer Applications, a PhD*

*and DSc in Computer Science, and a Certificate Program in Computer Language and Cyberlaw from Symbiosis University. Recently she has attended a very significant training, "Leadership for advancing higher education in India," Harvard graduate school of education, BOSTON USA, sponsored by MHRD Government of India. More than 10 PhDs have been awarded under her supervision, and 5 are pursuing PhD at present. She is empaneled member at many universities like GTU, BISAG, DDIT, MSU, and others. Assed Thesis and Synopsis of PhD for universities like Laurentian University Canada KIIT, GTU, Banasthali Vidhyapith, C. V. Raman Global University, etc., and guided MPhil and Master's Dissertation work at RSU, Guj. Uni. Benet University, etc. She has carried out research projects and organized events sponsored by UGC, ICSSR, DSTGUGCOST, AICTE-ATAL, and RSU. Travel grant received from ICS MHRD for visiting NTU Singapore. She received Grant from ICSSR to organize a national-level Research Methodology Course for Researchers. She also has to her credit Patents and Copyright. She has also contributed research papers in international journals, books, book chapters, and articles. Her research work on the cyberlaw framework has been submitted to Justice BN Srikrishna Committee on Data Protection Framework. She is also serving as Chairperson of Publication Cell and IPR Cell of RSU and holds the position of editor-in-chief of International Research Journal of Police Science, Kavach magazine of the University. Also, editors and reviewers of various other journals and conferences. She has been a member of the steering committee and chaired a session at Nanyang Technological University Singapore, Metropolitan University London, Jawaharlal Nehru University, Rajasthan University, etc. Invited for Expert talks at Florida University, University of Houston, International Police Expo, NICFS, IIT Bombay, IIT Gandhi Nagar, UGC, AICTE, ISTE, NAAC sponsored workshops, MDS, RTU, SIRD, GNLU, SPU, GU, GTU, Nirma University, Vibrant Gujarat, National level Hackathon, MSU, DDIT, BVM, MBCIT, GEC, United School. She has participated in the 14th United Congress on Crime Prevention and Criminal Justice, Kyoto, Japan. She has organized conferences, Tech Fest, Cyber awareness programs, Workshops, Value added courses events at the international, national, and state levels. She was awarded the Best research paper award, First Prize in Cyber Awareness, Women researcher award by ACM and CSI, EXCELLENCE AWARDS, Innovation in teaching Trainer Award Competition, and others.*

*Mr. Rahul Sharma , working as Assistant Professor in Department of Computer Science and Engineering at Parul Institute of Technology, Parul University Vadodara , Gujarat. Prior to that he has more than 5 years of teaching experience in several engineering colleges as Chameli Devi Group of Institution, Indore and Dr. A.P.J. Abdul Kalam University, he completed B.Tech (CSE) from Patel College of Science and Technology, Indore (M.P.) and M.Tech (NM&IS) from SCSIT, DAVV, Indore (M.P.). And Pursuing PhD degree in Computer Science and Engineering from Rabindranath Tagore University Bhopal (M.P.). His research includes Computer Network, Network Security, Cryptography, and Data Mining. He is having 13 research publications in reputed International journal, International- National conferences and 6 - patents (2 published- 4 Registered). He also have qualified GATE (CSE) in 2015. He is publishing more than 7+ books in the field of computer science and Engineering.*

*Dr Monika vyas is working as head of Civil Engineering Department in IES College of Technology. She did her graduation in Civil Engineering, Post-graduation in Environmental and Pollution control. She completed her PhD from NIT Bhopal in Environmental Modelling, She has several publications and books in the field of Environmental Modelling, ANN, Water policy, water food Nexus etc.*

Now a Days, cyber security is widely viewed as a matter of pressing national importance. Many elements of cyberspace are notoriously vulnerable to an expanding range of attacks by a spectrum of hackers, criminals, terrorists, and state actors. For example, government agencies and private-sector companies both large and small suffer from cyber thefts of sensitive information, cyber vandalism (e.g., defacing of Web sites), and denial-of-service attacks. The nation's critical infrastructure, including the electric power grid, air traffic control system, financial systems, and communication networks, depends extensively on information technology for its operation. National policy makers have become increasingly concerned that adversaries backed by considerable resources will attempt to exploit the cyber vulnerabilities in the critical infrastructure, thereby inflicting substantial harm on the nation. Numerous policy proposals have been advanced, and a number of bills have been introduced in Congress to tackle parts of the cyber security challenge. This book is designed to serve as the textbook for a semester course devoted to cyber security. It is focused on helping students acquired the skills sought in the professional workforce.

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## Data Structure and Algorithm

**Nikhat Raza Khan, Manmohan Singh, Piyush Kumar Shukla and Ramesh Prasad Aharwal**

### About the Authors

Dr Nikhat Raza Khan, Associate Professor & Head, working in dept. of computer science and Engineering, IES College of Technology Bhopal. Her Experience is more than 17+ yrs and since last 10 yrs serves her work in the field of research, She is a member of CSI, IEEE, ISTE, REST, computer society and various others journals since 2009, She has published more than 35 research papers in reputed International and National journals. Her main research work focuses on Mobile ADHOC Network, Cryptography Algorithms, Network Security, Cloud Security and Privacy, Big Data Analytics, IoT and Computational Intelligence based education. Dr. Nikhat Won best women research award in feb.2019.

Dr. Manmohan Singh, Professor, Department of Computer Science and Engineering, IES College of Technology Bhopal M.P India, his Experience is more than 15+ yrs and since last 10 yrs serves work in the field of research, he is a member of various professional bodies, he has published more than 25 research papers in reputed International and National journals

Dr. Piyush Kumar Shukla, PDF (Computer Engineering) & PhD (Computer Science & Engineering), Department of Computer Science & Engineering, UIT- Rajiv Gandhi Proudyogiki Vishwavidyalaya, (Technological University of Madhya Pradesh), India.

Dr. Ramesh Prasad Aharwal, Asstt. Prof. Department of Mathematics, Govt P.G. College Damoh M.P India.

Data structure and algorithms are two of the most important aspects of computer science. Data structure and algorithms help in understanding the nature of the problem at a deeper level and thereby a better understanding of the world. Learning data structure and algorithms will help you become a better programmer. This book provides a comprehensive introduction to the modern study of computer algorithms. It presents many algorithms and covers them in considerable depth, which makes their design and analysis accessible to all levels of readers. This book provides with an enjoyable introduction to the field of algorithms.

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## Concurrent, Parallel and Distributed Computing

**Adele Kuzmiakova**

### About the Editor

Adele Kuzmiakova is a machine learning engineer focusing on solving problems in machine learning, deep learning, and computer vision. Adele currently works as a senior machine learning engineer at Ifolor focusing on creating engaging photo stories and products. Adele attended Cornell University in New York, United States for her undergraduate studies. She studied engineering with a focus on applied math. Some of the deep learning problems Adele worked on include predicting air quality from public webcams, developing a real-time human movement tracking, and using 3D computer vision to create 3D avatars from selfies in order to bring online clothes shopping closer to reality. She is also passionate about exchanging ideas and inspiring other people and acted as a workshop organizer at Women in Data Science conference in Geneva, Switzerland.

The book "Concurrent, Parallel, and Distributed Computing" offers an excellent overview of the various areas of the computing field. There is a lot of overlap between the words "concurrent computing," "parallel computing," and "distributed computing," and there is no obvious differentiation between them. The same system can be described as "parallel" and "distributed"; in a typical distributed system, the processors run concurrently in parallel. The content in the book is presented in such a way that even a reader with no prior knowledge of computers may understand it and become acquainted with the fundamental concepts of computing. It offers numerous small examples, demonstration materials, and sample exercises that teachers can use to teach parallel programming principles to students who have just recently been introduced to basic programming concepts. It focuses on Python multiprocessing features like fork/join threading, message passing, sharing resources between threads, and using locks. Parallelism's utility can be seen in applications like searching, sorting, and simulations. Students and researchers can get an accessible and comprehensive explanation of the concepts, guidelines, and, in particular, the complex instrumentation techniques used in computing.

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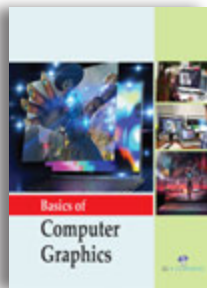
## Computer and Information Science



### Basics of Cloud Computing

- Provides a comprehensive overview of cloud computing technology.
- Covers the fundamental concepts, services, and deployment models of cloud computing, along with their benefits and challenges.
- A must-read for anyone interested in learning about the basics of cloud computing.

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### Basics of Computer Graphics

- Covers fundamental concepts and techniques used in computer graphics.
- Provides a comprehensive introduction to topics such as 2D and 3D graphics, rasterization, shading, and rendering.
- With its clear explanations and practical examples, this book is an essential resource for anyone interested in computer graphics.

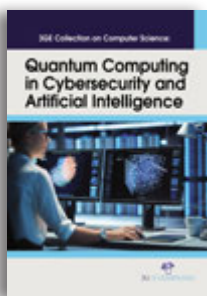
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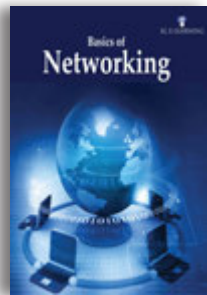
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### 3GE Collection on Computer Science: Quantum Computing in Cybersecurity and Artificial Intelligence

- This book provides an advanced understanding of cyber threats as well as the risks companies are facing.
- Provides an introduction to the field, including the unique characteristics and constraints of the technology, and assesses the feasibility and implications of creating a functional quantum computer operations.

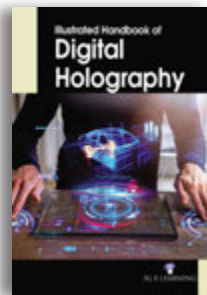
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### Basics of Networking

- An introductory book that provides a comprehensive overview of computer networking concepts.
- Covers the fundamentals of network architecture, protocols, and communication technologies.
- The book is ideal for beginners who want to learn about networking from scratch.

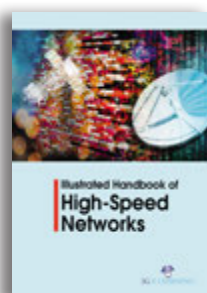
ISBN: 9781984685780 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Illustrated Handbook of Digital Holography

- This book presents a substantial description of the principles and applications of digital holography.
- Special techniques such as digital light-in-flight holography, holographic endoscopy, information encrypting, comparative holography, and related techniques of speckle metrology are also treated.

ISBN: 9781984681256 | Price: \$180 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### Illustrated Handbook of High-Speed Networks

- These are the protocol related aspects, such as switched networks, ATM, MAC layer, network and transport layer; and the services and applications.
- A high-level overview of cutting-edge network and Intranet design, this book focuses on high-speed technologies like routing for multimedia, how to manage traffic flow, and compression techniques for maximizing throughput.

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### 3GE Collection on Computer Science: Metalearning

- Discusses several approaches to obtaining knowledge concerning the performance of machine learning and data mining algorithms.
- Covers advanced deep learning topics used for learning to learn, including: automated machine learning, meta-learning, deep learning on graphs, transformers, knowledge graphs, symbolic regression, program induction, Bayesian learning, and deep reinforcement learning.

ISBN: 9781984680983 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## Information and Communications Technology in Everyday Life (with Access Code)

- This book provides a concise introduction to both the experience and implications of information and communication technologies (ICTs) in everyday life.
- Covering a broad range of everyday life and work settings, this book provides grounded insights into the social dynamics influencing how ICTs are both shaped and experienced.

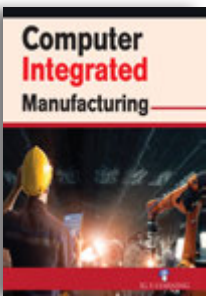
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## Introduction to Computer Programming and Web Designing

- An introductory text to Web design and programming that offers a comprehensive overview of the techniques, programs, and applications related to Web page design and programming.
- This book introduces all the concepts to get started with web application development.

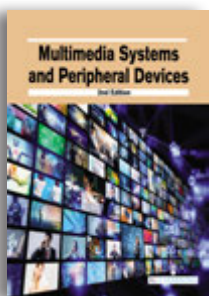
ISBN: 9781984678904 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Computer Integrated Manufacturing

- The book explores manufacturing history, individual processes, systems, and careers. This reflects an integrated approach that leading manufacturers have adopted to improve safety, quality, and efficiency.
- Deepens the skills and knowledge of an engineering student within the context of efficiently creating the products all around us.

ISBN: 9781984679161 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

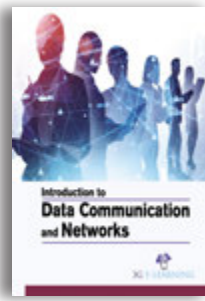


## Multimedia Systems and Peripheral Devices (2nd Edition)

- Multimedia technology has the potential to evolve the paradigm of end user computing, from the interactive text and graphics model that has developed since the 1950s.
- Presents fundamental characteristics and properties of multimedia operating and communication systems.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

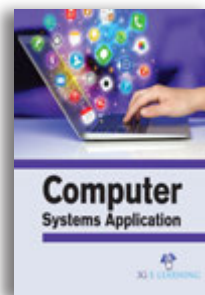
ISBN: 9781984679499 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Introduction to Data Communication and Networks

- This book deals with the concepts of Data Communication, Data Representation Layered Tasks, TCP/IP Protocol Suite, Physical Layer and Media, Transmission Impairment, Multiplexing, Data Link Layer.
- Thoroughly updated for currency, this book offers a clear presentation of data communications and network fundamentals.

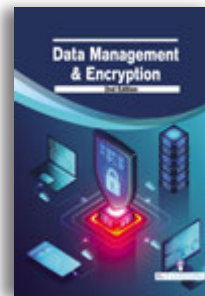
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## Computer Systems Application

- This book is designed to equip the students with basic knowledge of computers and its system.
- This book provides the students not just the knowledge about the fundamentals of a computer system, like its organization, memory management and hardware devices, but also the software that run on it.

ISBN: 9781984679154 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Data Management & Encryption (2nd Edition)

- You will learn the inner workings of cryptographic systems and how to correctly use them in real-world applications.
- Covering classical cryptography, modern cryptography, and steganography, this book details how data can be kept secure and private.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984679482 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Operations in Cybersecurity (2nd Edition)

- Introduces students to the interdisciplinary field of cybersecurity by discussing the evolution of information security into cybersecurity, cybersecurity theory, and the relationship of cybersecurity to nations, businesses, society, and people.
- This book provides insight into a range of data science techniques for addressing these pressing concerns.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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# Computer and Information Science



EDITION ③

## Information security (3rd Edition)

- This book is a pragmatic guide to information assurance for students taking a course in information technology.
- Provides you with fundamental knowledge of information security in both theoretical and practical aspects.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

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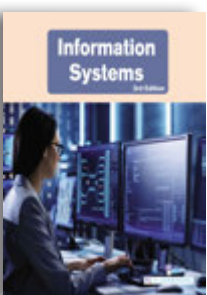


EDITION ③

## Data Centre Management (3rd Edition)

- Covers essential and recent development in the engineering and management of data centers.
- This edition will teach readers the basic concepts behind the design and scaling of server farms using data center and content switching technologies.
- The edition is revised and updated with the latest information and new chapters are added. This updated edition offers students real advice in navigating the ever-changing academic landscape.

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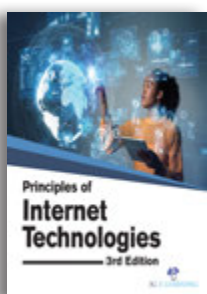


EDITION ③

## Information Systems (3rd Edition)

- This fully revised edition covers various aspects of information systems, including enterprise resource planning, customer relationship management, and supply chain management systems.
- Highlights the most important methods for information systems acquisition development, such as process modeling and systems acquisition design.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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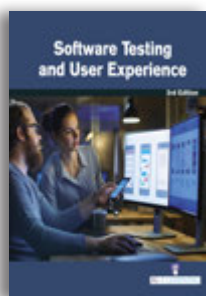


EDITION ③

## Principles of Internet Technologies (3rd Edition)

- This fully revised edition provides the most thorough examination of Internet technologies and applications in a variety of related fields.
- Introduces those technologies and is aimed at the Internet user who wishes to understand the technologies on which much of today's business and recreational computing is based.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

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EDITION ③

## Software Testing and User Experience (3rd Edition)

- The hardware and software of computing have changed markedly in the three decades.
- Fully updated throughout, includes revised material on software testing, pragmatic view of testing, addressing emerging areas like extreme testing and ad hoc testing.
- Some new chapters covering current topics are also added in this revised edition.

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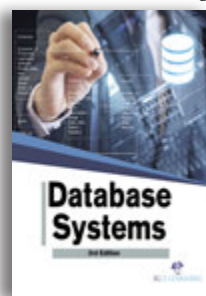


EDITION ③

## Project and Programme Management (3rd Edition)

- In this fully revised edition, this book provides authoritative guidance and advice, templates, concepts, systems and approaches on every aspect of successful programme management.
- Describes the skills and capabilities that organizations need to develop in order to manage change programmes effectively. This is an easy book to dip into to how to improve the project and programme management competences.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers and some new chapters are added in this edition.

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EDITION ③

## Database Systems (3rd Edition)

- This fully revised edition provides students a systematic introduction to and an in-depth treatment of these advanced database areas for understanding recent innovations in the field.
- This 3rd edition will teach readers the recent and emerging technologies in the field of database technology.
- The edition is revised and updated with the latest information and new chapters are added. This updated edition offers students real advice in navigating the ever-changing academic landscape.

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EDITION ③

## Information Technology Project Management (3rd Edition)

- Fully updated throughout, includes revised material on the growing trends, issues, and applications of technology project management.
- Weaves theory with successful practices for an integrated focus on the concepts, tools, and techniques that are most effective today.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

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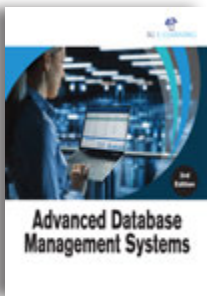


## Information Technology Service Management (3rd Edition)

- With concise explanations and detailed illustrations, this edition includes extensive revisions of the material on the basics of IT service management and its implementation and interpretation in an easy, self-study approach.
- The 3rd edition is revised and updated with the latest information and new chapters are added.
- This updated edition offers students real advice in navigating the ever-changing academic landscape.

EDITION ③

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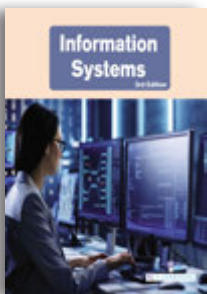


## Advanced Database Management Systems (3rd Edition)

- This fully revised edition is intended to provide an organized introduction to and an in-depth treatment of these advanced database areas.
- With concise explanations and detailed illustrations, this edition includes extensive revisions of the material of basic concepts, methods and techniques, as well as important issues and trends across the broad.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ③

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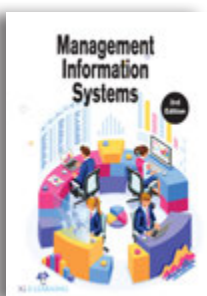


## Information Systems (3rd Edition)

- Provides the coverage of both the theory and the practical applications of knowledge-based systems.
- Focusing on fundamental scientific and engineering issues, this book communicates the principles of building and using knowledge systems from the conceptual standpoint as well as the practical.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

EDITION ③

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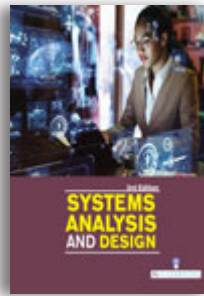


## Management Information Systems (3rd Edition)

- Fully updated throughout, includes revised material on the structure of MIS and shows how to use them to aid in decision making, determine accountability, manage personnel, and identify information needs.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

EDITION ③

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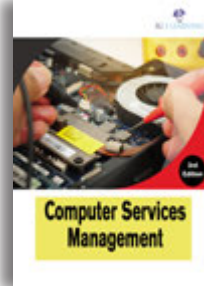


## Systems Analysis and Design (3rd Edition)

- This fully revised edition has been thoroughly updated with substantial additions including with planning the development of information systems through understanding and specifying in detail what a system should do
- This book gives you the tools to learn practice, and perfect your skills in systems analysis and design.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

EDITION ③

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## Computer Services Management (3rd Edition)

- This fully revised edition deals with some of the problems that have confronted those in charge of computer services. Teaches the practices and principles needed to build, upgrade, and troubleshoot your PC.
- Fully updated throughout, includes revised material on the computer usage in business organizations with specific reference to commercial data processing systems.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

EDITION ③

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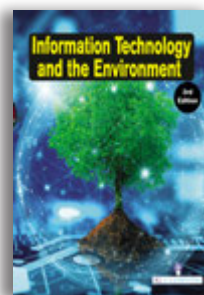


## Object Oriented Programming (3rd Edition)

- Fully updated throughout, includes revised material on fundamentals of Object Oriented Programming.
- Provides a unique overview of the main approaches to object-oriented languages.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

EDITION ③

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## Information Technology and the Environment (3rd Edition)

- This 3rd edition will teach readers the nature and the impact of the new information and communication technologies on business and society.
- The edition is revised and updated with the latest information and new chapters are added. This updated edition offers students real advice in navigating the ever-changing academic landscape.
- Suitable for undergraduate students, willing to build a solid foundation of the information technology skills needed at the workplace.

EDITION ③

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## Computer and Information Science



EDITION ③

### Information Technology and the Environment (3rd Edition)

- This 3rd edition will teach readers the nature and the impact of the new information and communication technologies on business and society.
- The edition is revised and updated with the latest information and new chapters are added. This updated edition offers students real advice in navigating the ever-changing academic landscape.
- Suitable for undergraduate students, willing to build a solid foundation of the information technology skills needed at the workplace.

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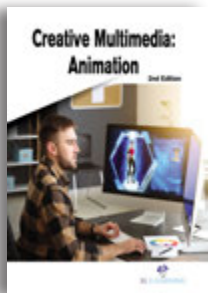


EDITION ③

### Cyber Security (3rd Edition)

- With concise explanations and detailed illustrations, this edition includes extensive revisions of the material on the essentials of Cybersecurity, even if you have a non-technical background.
- This revised edition has been thoroughly updated with substantial additions including the challenges of cyberspace in an interdependent world and at the need for new, cooperative modes of governance to build cyber security.
- Some new chapters covering current topics are also added in this revised edition.

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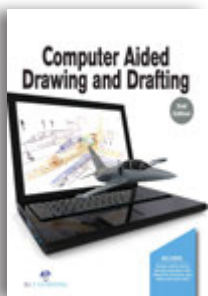


EDITION ②

### Creative Multimedia: Animation (2nd Edition)

- A guide to the fundamental principles of animation covers figurative animation, timing, acting, and design, animals in motion, sound synchronization, and technical issues.
- This classic book familiarizes students with overall process of producing digital work art, particularly in 2D and 3D.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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EDITION ②

### Computer Aided Drawing and Drafting (2nd Edition) (with Access Code)

- Teaches advanced computer-aided drafting concepts and equipment designed to develop a general understanding of components of a typical CAD system and its operation.
- Examines interactive computer graphics and its use in designing industrial robots, computer control of manufacturing processes, computer-integrated production control, automated inspections, and flexible manufacturing.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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EDITION ③

### Web Engineering (3rd Edition)

- This revised edition has been thoroughly updated with substantial additions including the innovative aspects of web engineering which will be crucial for the holistic understanding of the subject matter.
- The edition is revised and updated with the latest information and new chapters are added. This updated edition offers students real advice in navigating the ever-changing academic landscape.
- A must-have book for all those students who are associated with the field of Web engineering.

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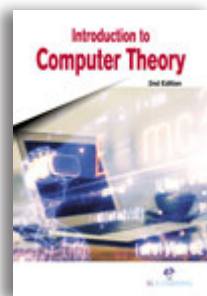


EDITION ②

### Computer Systems and Networking Technology (2nd Edition)

- Today, networking is an integral part of the computer and so the book introduces basic networking techniques and communications principles.
- Provides the skills required to configure, install, manage, and administer computer systems and basic network infrastructures.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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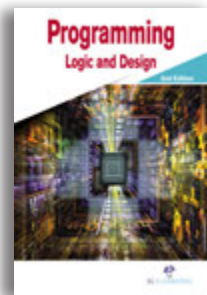


EDITION ②

### Introduction to Computer Theory (2nd Edition)

- Presents the key concepts and theorems of the theory of computation.
- Covers the fundamental areas of computer theory-formal languages, automata theory, and Turing machines.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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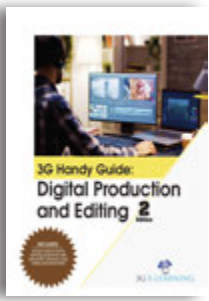


EDITION ②

### Programming Logic and Design (2nd Edition)

- Covers the fundamentals of programming logic, design and implementation.
- Examines problem-solving techniques applied to program design; giving students an understanding of how languages work to implement the programmer's logic and design.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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## 3G Handy Guide: Digital Production and Editing (with Access Code) (2nd Edition)

- This innovative, practical guide is specifically designed to cater to these training demands, covering the entire spectrum of modern print media production. This is the source for everything you need to bring your ideas from the page to the screen.
- This handy guide covers all aspects of movie making. Techniques for making dramatic features, documentaries, corporate, broadcast, and experimental videos and films are illustrated.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## 3G Handy Guide: Graphic Designing (with Access Code) (2nd Edition)

- Completely updates the information on the production process, highlighting new techniques and expanding its coverage on digital technologies.
- This book offers learners, novice designers, and battle-toughened professionals alike an insider's guide to the complexities of current graphic design practice and thinking.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## Blockchain and Decentralized Trust Management for Cloud and Edge Computing

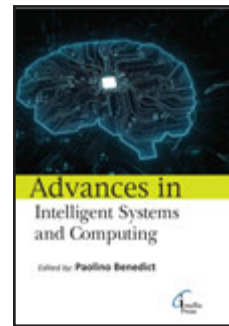
Editor: Grundman Berg

Blockchain technology provides a decentralized and secure system for managing digital transactions and data. In cloud and edge computing, blockchain can be utilized to enhance trust, privacy, and security by enabling decentralized data storage, authentication, and smart contracts. It offers potential solutions to challenges related to data integrity, transparency, and trust management in distributed computing environments. This book explores the integration of blockchain technology for decentralized trust management in cloud and edge computing environments.

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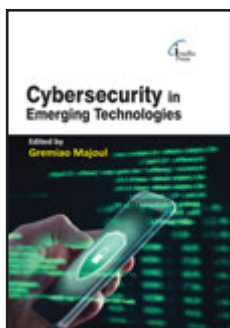
## Advances in Intelligent Systems and Computing

Editor: Paolino Benedict

Intelligent systems and computing have seen significant advancements in recent years, with innovations such as deep learning, natural language processing, and computer vision revolutionizing various industries. These systems are capable of performing complex tasks, making autonomous decisions, and adapting to changing environments, leading to improved efficiency, productivity, and accuracy. This book showcases recent advancements in the field of intelligent systems and computing, including artificial intelligence and machine learning.

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Publisher: Intelliz Press LLC



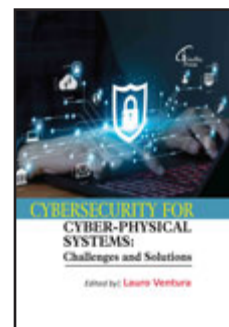
## Cybersecurity in Emerging Technologies

Editor: Gremiao Majoul

As emerging technologies like artificial intelligence, blockchain, and the Internet of Things continue to evolve and integrate into our daily lives, ensuring robust cybersecurity measures is crucial. With increased connectivity and data exchange, there is a pressing need for advanced security protocols to protect against cyber threats and safeguard sensitive information. This book focuses on the challenges and strategies for ensuring cybersecurity in emerging technologies.

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Publisher: Intelliz Press LLC



## Cybersecurity for Cyber-Physical Systems: Challenges and Solutions

Editor: Lauro Ventura

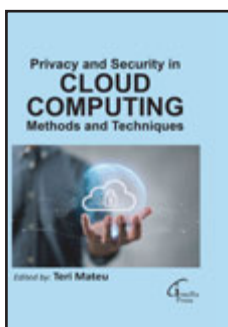
Cyber-physical systems, which combine physical elements with computing and communication capabilities, face unique cybersecurity challenges. As these systems are deeply integrated into critical infrastructure such as power grids, transportation networks, and industrial processes, protecting them from cyber attacks becomes paramount to prevent potential disruptions, safety hazards, and economic losses. This book addresses the unique

challenges and solutions in ensuring the cybersecurity of cyber-physical systems.

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## Computer and Information Science



### Privacy and Security in Cloud Computing: Methods and Techniques

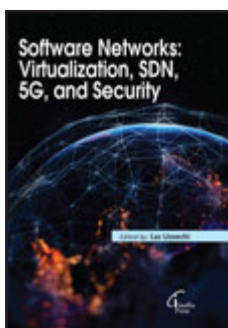
*Editor: Teri Mateu*

Cloud computing has transformed the way businesses and individuals store, access, and process data. However, this shift to cloud-based solutions raises concerns about privacy and security. Efforts are being made to develop robust encryption methods, authentication protocols, and data governance frameworks to ensure the confidentiality, integrity, and availability of data in cloud environments. This book discusses methods and

techniques for maintaining privacy and security in cloud computing environments.

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**Publisher: Intelliz Press LLC**



### Software Networks: Virtualization, SDN, 5G, and Security

*Editor: Laz Uzoечи*

Today, the Internet is key to almost any social or economic activity. In 10 years, it will be even more essential for society and the economy around the world. Yet, there are still concerns and challenges facing the Internet. There are worries around personal data and transparency. And, the Internet should provide better services and greater involvement and participation. It is essential that the next generation of the Internet is designed for

humans, so that it can meet its full potential for both the society and the economy. The goal of this book is to describe new concepts for Internet next generation.

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**Publisher: Intelliz Press LLC**



### Real-Time Embedded Systems

*Editor: Gontili Reine*

Real-time embedded systems are those that incorporate a real-time operating system, ensuring that the device can respond to sensory inputs within the time constraints specified by the embedded software. This book covers new topics from real time systems, embedded systems, and software engineering to give a complete picture of the whole process of developing software for real-time embedded applications.

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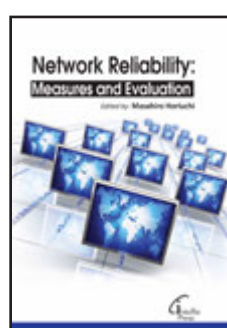
### Wireless Communication Security

*Editor: Isack Kambira*

Currently, wireless communications vulnerabilities are on the increase due to the higher demand for higher data rates, the need for advanced services and that of roaming, and the huge deployment of services across the globe. Consequently, this has created serious challenging issues in the security of wireless systems and applications in wireless environments. The book delivers a thorough grounding in wireless communication security. The book addresses how engineers, administrators, and others involved in the design and maintenance of wireless networks can achieve security while retaining the broadcast nature of the system, with all of its inherent harshness and interference.

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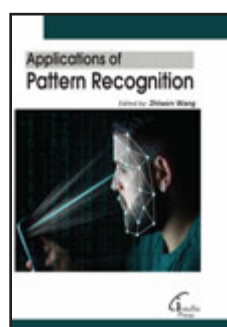
### Network Reliability: Measures and Evaluation

*Editor: Masahiro Horiuchi*

Network reliability is a critical factor in mission critical industrial automation and control networks. Reliability within an industrial network is a measure of the likelihood that information will be received by its intended recipient on-time, as long as assumptions about operating conditions are met. Network reliability has vital importance at all stages of processing and controlling communication networks. This book equips the reader to apply the core concepts and methods of network reliability analysis to real-life problems.

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### Applications of Pattern Recognition

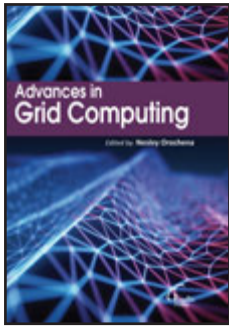
*Editor: Zhiwen Wang*

Pattern Recognition is a mature but exciting and fast developing field, which underpins developments in cognate fields such as computer vision, image processing, text and document analysis and neural networks. It is closely akin to machine learning, and also finds applications in fast emerging areas such as biometrics, bioinformatics, multimedia data analysis. This book will show application of pattern recognition in robotic, biomedical, social media intelligence and cyber security.

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### Advances in Grid Computing

*Editor: Nesley Orochena*

Grid computing provides an architecture for creating a virtual supercomputer made up of distributed computer nodes. Grid computing enables the virtualization of distributed computing resources such as processing, network band width, and storage capacity to create a single system image, granting users and applications seamless access to vast IT capabilities. The book deals with the most recent technology of distributed computing.

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## Earth and Environmental Science



### Environmental Biotechnology

**Dr. Birendra Prasad and Dr. Anjali Priyadarshini**

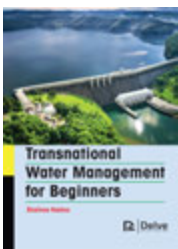
Pollution is a global issue unequivocally causing multiple impacts. Globally, industrialization and modernization at an unrestrained pace are disturbing natural systems and equilibriums to impact us too economically, physically, mentally and socially! This book emerges as pertinent to present a succinct account of few solutions to start with along with case studies from research to enable a reader to gain an insight into how we are handling this issue. This becomes even more significant in the current COVID-19 pandemic given that several studies have unveiled how air pollution weakens the immune system to facilitate COVID-19 virus entry, augmented virulence, lethality and persistence

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#### About the Editors

*Dr. Birendra Prasad is a Professor of Botany & Coordinator of Biotechnology at Patna University, Patna, India. He has contributed to the world with publications appearing in many National and International Journals. His areas of research are anti-ageing plant metabolites and bioethanol production from agro-wastes. He has also isolated many novel strains of microorganisms and also filed three patents in the area of modern biology. He has handled a few major research projects of Department of Biotechnology (DBT), Govt. of India and Department of Atomic Energy (DAE), Govt. of India.*

*Dr Anjali is an associate professor, Department of Biotechnology, SRM University, Delhi-NCR, India. She is a PhD from PGIMER Chandigarh and has 10 years of research and teaching experience. She is currently handling projects from ICMR.*



### Transnational Water Management for Beginners

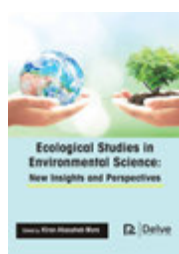
**Shalinee Naidoo**

Poor water quality has resulted in major problems in many developing countries, affecting the overall socio-economic status of communities as well as the ecological situation of various surrounding environments. This, together with changing climatic conditions, increases in industrial activities, and changes in land use, has led to an exacerbation of water-related problems. Nowadays, water-related issues have infiltrated into many different areas such as the environment, energy, industry, transport, food security, society, health, and even climate sectors. Often these tend to impact at both the national and international scale. The increased demand for water has often placed an enhanced risk of conflict where governance is concerned and a host of challenging issues are raised, which often intensifies at a transboundary or transnational level. This volume, in particular, focuses on the basic concepts a beginner needs to know when learning about Integrated Water Resource Management. A simplified understanding of the environment, resources, and related interactions are provided before touching on ecosystems, ecosystem management, and ecological principles. The basics of water management and how to implement water resource management are also covered.

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#### About the Author

*Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and the design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal ([www.lifeofshal.com](http://www.lifeofshal.com)) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary ([www.scientistsanctuary.com](http://www.scientistsanctuary.com)) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.*



### Ecological Studies in Environmental Science: New Insights and Perspectives

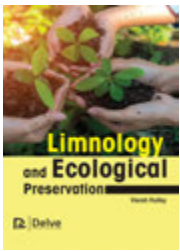
**Kiran Abasaheb More**

Ecology is a well-established bio centric interdisciplinary field that investigates the complex connections between different kinds of organisms, ranging from bacteria to humans, as well as how these relationships evolve over time and in a variety of spatial and temporal dimensions. This field focuses on the study of ecology, evolution, and biodiversity. The majority of research on ecology focuses on the intricate interactions that occur between different species, as well as how these relationships evolve over the course of time. It is only in recent times that ecology has been considered to comprise the “heart and spine” of environmental research. Environmental management is required because natural resources are being depleted, biodiversity is being lost, and the environment (land, air, and water) are being polluted. It is essential to take corrective action in order to repair or rehabilitate the natural environment in the future. This should be seen as a preventative strategy. Regardless of the amount of work that has been put into maintaining the ecosystem's current state, the destruction of the environment continues unabated. This book provides a comprehensive look at a number of the most significant issues affecting the environment, as well as an investigation of the reasons why ecology has been unable to address these issues. In the present book, it is underlined how important it is for human goals to be accomplished in a manner that is both sustainable and to takes into account the social, economic, and political aspects of environmental concerns. This book will provide a comprehensive outlook on ecological perspective on environmental sciences and will be useful for University and college graduates and postgraduate students.

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#### About the Editor

*Dr. Kiran Abasaheb More, born in Bhogaon (Devi) Tahsil Jintur of Parbhani district of Maharashtra, India, in 1978, completed M.Sc in Botany, at Shree Shivaji College Parbhani, Maharashtra, Affiliated with Swami Ramanand Teerth Marathwada University Nanded, Maharashtra. The author also completed his Ph.D in 2010 in field of Taxonomy of Angiosperms and he joined the department of Botany, Yashwantrao Chavan Arts and Science Mahavidyalaya, Mangrulpir as an Assistant Professor. He is the Chief Editor of Research Journal Multilogic in science (Journal for Applied science), He edited more than 35 issues of research journals and authored 25 research papers. Dr. More is awarded by Young scientist award of Science and tech society for Integrated ruler improvement Telangana, and also awarded by Excellence in Teaching GENESIS ARBAN & RULER DEVELOPMENT SOCIETY at the occasion of ICAAASTSD International conference 2018. He is the editor of proceeding of International conference on Advances in Agriculture and Allied science technologies for sustainable Development Society Special issue Jan 2018 and he is a Life Member of “GUARD Society”. He also chaired a number of National and International Conferences, he is also a Member of Botany teacher association of Sant Gadge baba Amravati University Amravati, Maharashtra, India.*



## Limnology and Ecological Preservation

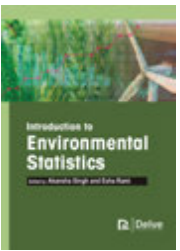
**Vierah Hulley**

Limnology is an integrated, multidisciplinary scientific study of inland waters – reservoirs, fresh water and saline lakes, ponds, waterways, wetlands, rivers, and groundwater. This book provides a comprehensive overview on the current state of the science and an understanding of the bio-geophysical components of inland aquatic ecosystems. The existence of human beings is closely linked to our proximity to freshwater. Despite being of high significance, anthropogenic activities continue to place stressors on inland aquatic ecosystems. An understanding of the natural system allows for predictive analysis and the development of proactive measures to avoid or manage the disturbances to these systems.

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### About the Author

Vierah Hulley (PhD) is an international expert in Environmental and Earth Sciences, with an extensive vocational background in the areas of environmental policy development, environmental and social risk management, natural resources management, sustainability, and climate risks management. She is the Founder of HL Nexus: Sustainable Management Solutions; a company dedicated to harnessing the power of data science in managing sustainability and climate risks. Vierah holds a master's degree in Geology and a PhD in Hydrogeology, with a focus on environmental and spatial science.



## Introduction to Environmental Statistics

**Akansha Singh and Esha Rami**

Environmental statistics involves the use of statistical approaches to environmental science. It covers methods for managing questions regarding the natural ecosystem in its undisturbed condition. This reader-friendly book emphasizes the fields of probability hypothesis and dimensions that are significant in environmental data analysis, monitoring, research, ecological field studies, and ecological decision making. It discusses fundamental statistical theory with minimal documentation, however without precluding significant details and presumptions. The book likewise presents a hypothesis of how and why environmental physical cycles in the environment create right-slanted, lognormal dispersions. The volume likewise presents the Rollback Statistical Theory, which permits data analysts and administrators to appraise the impact of various emission control methodologies on environmental quality frequency diffusions. Assuming just a simple understanding of polynomial math and analytics, Environmental Data Analysis and Statistics provides a superior reference and assortment of measurable strategies for investigating environmental data and developing precise environmental predictions.

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### About the Editors

Dr. Akansha Singh is presently working as Project Scientist in Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, India. She has also worked as Postdoctoral fellow, Mumbai University and as Associate Professor, Department of Genetics and Plant Breeding, College of Agriculture, Parul University, India. She has obtained her Ph.D. (Ag) in Genetics and Plant breeding from Banaras Hindu University in the year 2012. She has been Awarded with ICAR, senior research fellowship in 2010 to pursue PhD. She has authored numerous national and international publications in journals of repute.

Dr. Esha Rami is presently working as an Assistant Professor, in the Department of Life science, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated from Ganpat University, Ph.D. in biotechnology from Hemchandracharya North Gujarat University, in the year 2015. She has authored a number of national and international publications in reputed journals.



## Key Aspects of Environmental Planning: Public Policy and Practice

**Vierah Hulley**

Environmental planning is the integrated analysis and assessment of the surroundings environmental information into the planning process for development and is concerned with the protection and enhancement of environmental systems while meeting demands for growth and development. The process involves a systematic evaluation of socio-economic, political, and administrative factors affecting the natural ecosystem to promote environmentally sound development and management of natural resources. This process may be applicable at the local, state, federal and international levels. This book, divided into 10 chapters, provides the reader with a detailed account of the multi-faceted and interdisciplinary aspects of environmental planning.

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### About the Author

Vierah Hulley (PhD) is an international expert in Environmental and Earth Sciences, with an extensive vocational background in the areas of environmental policy development, environmental and social risk management, natural resources management, sustainability, and climate risks management. She is the Founder of HL Nexus: Sustainable Management Solutions; a company dedicated to harnessing the power of data science in managing sustainability and climate risks. Vierah holds a master's degree in Geology and a PhD in Hydrogeology, with a focus on environmental and spatial science.



## Climate Change and Carbon Markets

**Elisa Gomez Gonzalez**

Carbon markets help mobilize resources and reduce costs to give countries and companies the space to smooth the low-carbon transition. Carbon markets are also a key tool for states to get businesses to help mitigate climate change, as businesses that run climate mitigation projects, such as building wind farms or re-planting forests, will be able to sell the emissions reductions to countries. The main aim of this book is to provide simple, effective, understandable, and applicable mechanisms for all readers. To enable and empower them to implement management systems that are adapted to the reality and expectations of their business. In this book, you will find all of those mechanisms and resources needed to ensure that sustainability is well embedded into a company through Human Resources Practices, Marketing, Communication, Procurement, and CEO Leadership.

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### About the Author

Born in the Canary Islands, Elisa Gomez has always been aware of the immense potential and limitations that resources provide to communities. Following her passion towards the environment and sustainable development mechanism, she completed the Madrid Environmental Sciences degree and later completed a Master's degree in International Sustainable Development and Corporate Sustainability. She has worked for a wide range of industries and sectors as a sustainability consultant and analyst implementing international standards, achieving certifications, and ensuring the management processes were effective. The sectors englobe oil and gas, construction, telecommunications, and software design.

Moved by a great passion towards her work, she decided to quit the corporate environment and set up her own company, Better Together (www.better-together-sustainability.com) an online sustainability company that specializes in simple, effective, and understandable sustainability practices for all types of companies. They focus especially on Startups and SMEs, as these are growing; ensuring that they are sustainable right from the start without the burden of complicated, time-consuming, and expensive measures.

## Earth and Environmental Science



### Introduction to Mineralogy

**Kailash Ramesh Rao Malode**

Minerals are the building blocks of Earth, and for all intents and purposes Earth Sciences involve minerals in one way or another. Minerals constitute a decent amount of objects found in nature and used by the general public, including the soils that allow for agriculture and the springs that constitute underground water supplies. Minerals play a vital role in the sustenance of humans. One of mankind's key discoveries was the recognition of different rocks and minerals, and their use as indicated by their properties. With the advancement of mining, it became significant for individuals to recognize different minerals, and evidence on mineral use and properties can be traced back to ancient civilizations such as: Greece, Rome, Persia, and Arabia. Extensive profiling of minerals began in the late eighteenth century, with the commencement of the Berzelius classification of the "anionic" minerals. The popularity of precious minerals like gold further had a major impact on Mineralogy. This volume discusses the works of W.L. Bragg, an atom scientist, which form the basis for our current understanding of mineral science and properties, and the contribution of V.M. Goldschmidt that provided a theoretical context for the behavior of elements in geochemical processes.

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#### About the Editor

Dr. Kailash Malode (1980) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Parul University, Vadodara, Gujarat. He obtained his B. Sc. (Ag.) in 2006 from Marathwada Agriculture University, Parbhani. M. Sc. (Ag.) 2009 in Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph. D. Soil Science And Agriculture Chemistry in 2014 from Vasant Rao Naik Marathwada Krishi Vidyapeeth, Parbhani. He started his career as Assistant professor in 2014. His field of specialization is soil fertility, Remote Sensing and Organic Farming. He has published 02 books and 15 research paper in National and international journals of reputed. He has participated many National, State Seminar and symposiums. He has written 02 practical manuals for under graduate course for the benefit of students besides several Radio talk, Lectures in farmer training programme. Dr. Kailash has also written 21 popular articles in Shati Bharti, Shati pragati and other reputed Magazines. He has Best writer award on 2015 for Krishi dooth popular Magazines of Maharashtra and One Young scientist award in 2020.



### Environmental Science for Beginners

**Shalinee Naidoo**

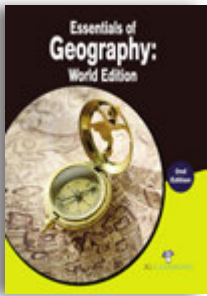
The study of environmental science serves as a valuable resource for learning more about changes around the world and how they affect us. As population numbers continue to increase so has the pressure on existing natural resources. While renewable resources can be replenished, they are being used far too rapidly and cannot be replenished at a rate fast enough to meet usage. On the other hand, non-renewable resources cannot be replenished at all. By studying the changes happening to the environment and how it is affected, we may be able to possibly develop solutions that prevent the complete depletion of these resources while aiding in the development of sustainable solutions. This volume serves as an introduction to the field of Environmental Science. An overview on historical aspects and influential environmentalists are provided. This is followed by exploring the components of the environment, causes of environmental disasters and geomorphological processes. Basic concepts of ecosystems, ecology, ecological succession, ecosystem services and biodiversity are also covered.

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#### About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and the design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal ([www.lifeofshal.com](http://www.lifeofshal.com)) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary ([www.scientistsanctuary.com](http://www.scientistsanctuary.com)) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

## Earth and Environmental Science



EDITION ②

### Essentials of Geography: World Edition (2nd Edition)

- Offers readers a short and highly accessible account of the ideas and concepts constituting geography.
- Outlines key concepts, introduces modern geographical theory in an accessible format and reflects the changing nature of the subject.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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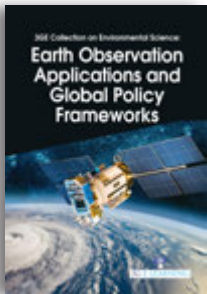


EDITION ②

### Earth Science: World Edition (2nd Edition)

- Covers a broad range of topics, including weather patterns, monitoring for pre-earthquake signals, using earthquakes to uncover new information about the earth system.
- The book is intended to be a meaningful, non-technical survey for undergraduate students with little background in science.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

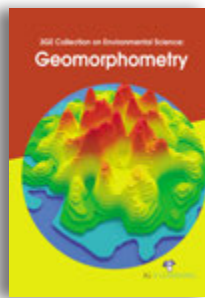
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### 3GE Collection on Environmental Science: Earth Observation Applications and Global Policy Frameworks

- Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work.
- This book presents different aspects of climate change and discusses space technology applications.

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### 3GE Collection on Environmental Science: Geomorphometry

- The book covers geomorphological theories, weathering, slope processes, soil erosion, fluvial and glacial processes and landforms, applied geomorphology, mountain building, rates of landscape change, supercontinent breakup, ocean islands and megafloods.
- It also offers detailed instructions on applying parameters and objects in soil, agricultural, environmental and earth sciences.

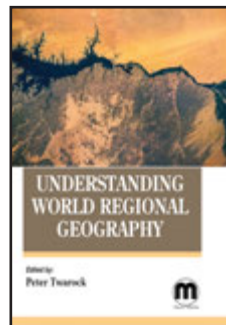
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### 3GE Collection on Environmental Science: Volcanology

- Examines the Earth, its structure, formation, composition, history, processes, hazards and materials, with emphasis on volcanic processes.
- Covers a range of topics which may include looking at rocks, minerals and fossils and a variety of geological processes.

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### Understanding World Regional Geography

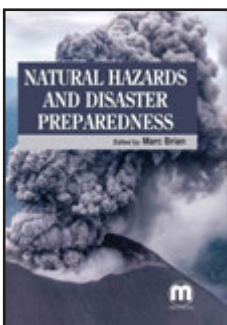
Editor: Peter Twarock

World regional geography explores the diverse physical, cultural, and socio-economic characteristics of different regions around the globe. By studying this subject, we can gain insights into the interconnections between people, places, and environments, and develop a better understanding of the complex spatial patterns and processes that shape our world. This book offers a comprehensive overview of different regions across the globe.

The book highlights the diverse cultural, political, economic, and environmental aspects of each region, providing readers with a deep understanding of the complexities and interconnectedness of our world.

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### Natural Hazards and Disaster Preparedness

Editor: Marc Brian

Understanding natural hazards is essential for effective disaster preparedness. By studying the causes, impacts, and mitigation strategies of natural disasters such as earthquakes, hurricanes, and floods, we can develop early warning systems, emergency response plans, and resilient infrastructure to minimize the loss of life and property during catastrophic events. This book examines various types of hazards, such as earthquakes,

floods, and hurricanes, and provides insights into disaster preparedness, response, and recovery strategies, helping communities and individuals better cope with such events.

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## Earth and Environmental Science



### Wildlife Conservation and Management

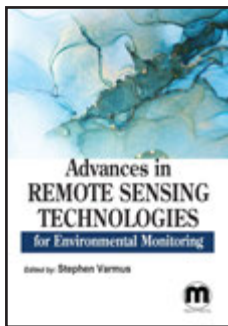
*Editor: Victor Koprowski*

Wildlife conservation and management involve efforts to protect and preserve biodiversity, restore habitats, and ensure sustainable use of natural resources. By implementing conservation measures, such as protected areas, habitat restoration, and wildlife population monitoring, we can safeguard endangered species and maintain ecological balance. This book offers a comprehensive examination of the principles and practices involved in conserving and managing wildlife populations.

From understanding biodiversity to implementing conservation strategies, this book highlights the importance of sustainable management and the preservation of our planet's diverse wildlife.

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**Publisher: Magnum Publishing LLC**



### Advances in Remote Sensing Technologies for Environmental Monitoring

*Editor: Stephen Varmus*

Remote sensing technologies, such as satellite imagery and aerial surveys, provide valuable data for monitoring and assessing the Earth's environment. These technologies enable us to detect changes in land cover, monitor pollution levels, and track the impact of natural disasters, allowing for informed decision-making in environmental management and resource conservation. This book explores

the cutting-edge technologies used to monitor and assess the Earth's environment from a remote perspective. It also discusses the latest advancements in remote sensing techniques, including satellite imagery and aerial surveys, enabling researchers and environmentalists to gather critical data for environmental monitoring and management.

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### Waste Management Strategies and Technologies

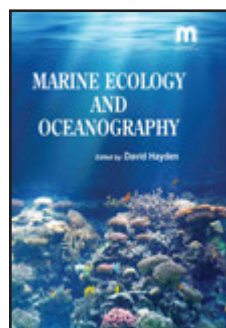
*Editor: Christopher Martin*

Waste management strategies and technologies focus on reducing, reusing, and recycling waste materials while minimizing their environmental impact. Through initiatives such as waste segregation, composting, and advanced recycling techniques, we can mitigate pollution, conserve resources, and move towards a more sustainable and circular economy. This book addresses the pressing issue of waste management and provides

comprehensive insights into sustainable waste management strategies and innovative technologies. This book explores waste reduction, recycling, and waste-to-energy conversion methods, emphasizing the importance of efficient and environmentally friendly waste management practices.

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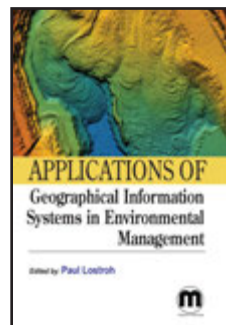
### Marine Ecology and Oceanography

*Editor: David Hayden*

Marine ecology and oceanography study the intricate relationships between organisms and their marine environments. By examining the physical and biological processes in oceans, including nutrient cycles, ocean currents, and food webs, we can better understand the dynamics of marine ecosystems and address pressing issues like climate change, overfishing, and pollution. This book integrates the ecosystems of the world's oceans, exploring the interplay between organisms and their environment. It covers topics such as marine biodiversity, oceanic currents, and the impacts of human activities on marine ecosystems, providing valuable insights into the fragile balance of our oceans.

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### Applications of Geographical Information Systems in Environmental Management

*Editor: Paul Lostroh*

Geographical Information Systems (GIS) facilitate the collection, analysis, and visualization of spatial data for environmental management. By integrating various data layers, including land use, terrain, and hydrology, GIS enables effective planning, monitoring, and decision-making to address environmental challenges like urbanization, deforestation, and pollution. This book highlights the applications of GIS in analyzing spatial data, mapping environmental patterns, and supporting decision-making processes, making it an essential resource for professionals in the field of environmental management.

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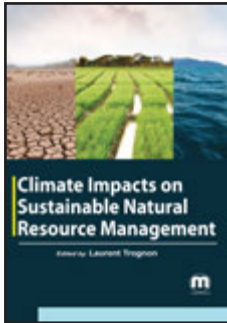
### Advances in Environmental Monitoring and Assessment

*Editor: Majeda Khraisheh*

Over the past decade, only a few countries of Europe and Central Asia have been able to maintain existing monitoring activities. The monitoring of urban air pollution — an important human health risk — is poor in many cities of the subregion. Solid and hazardous waste monitoring is weak and industrial emissions are also not well monitored, reducing the effectiveness of policy instruments such as emissions charges and fines. Monitoring of transboundary air pollution also needs strengthening. The book covers the design and development of monitoring systems. It also describes methods and procedures for pollution risk assessment.

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### Climate Impacts on Sustainable Natural Resource Management

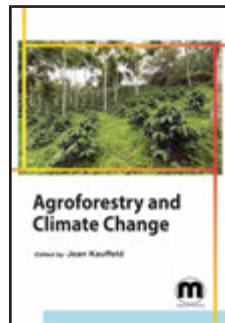
*Editor: Laurent Trognon*

Around the world, people are experiencing both the subtle and stark effects of climate change. Gradually shifting weather patterns, rising sea levels, and more extreme weather events are all clear and devastating evidence of a rapidly changing climate. Climate change threatens our ability to ensure global food security, eradicate poverty, and achieve sustainable development. Effective management of these natural resources reduces

conflict, contributing to national security objectives. This book covers significant in the field of sustainable natural resources management linked to climate change.

**Print ISBN: 9781682508411 | \$165 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Agroforestry and Climate Change

*Editor: Jean Kauffeld*

Agroforestry is an ecologically sustainable land use system that maintains increase total yield by combining food crops (annuals) with tree crops (perennials) and/or livestock on the same unit of land. Agroforestry system is economically and ecologically sound practices with enhancement of overall farm productivity, soil enrichment through litter fall, maintaining environmental services such as climate change mitigation (carbon sequestration), phytoremediation, watershed protection and biodiversity conservation. This book will help you gain an in-depth understanding of how agroforestry can help mitigate climate change.

**Print ISBN: 9781682508428 | \$165 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Climate Change and Microbes

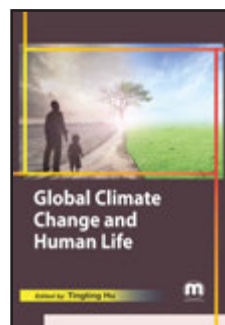
*Editor: Nidal Ershaidat*

Climate change is the most serious challenge facing humanity. Microbes produce and consume three major greenhouse gases—carbon dioxide, methane, and nitrous oxide—and some microbes cause human, animal, and plant diseases that can be exacerbated by climate change. Microbes play an important role in climate because they release carbon dioxide into the atmosphere when they eat. Bacteria and their main predators, protists, account for more than 40 times the biomass of

all animals on Earth. As a result, they have a huge effect on carbon dioxide emissions. This book provides an enlightening picture of the role of microbes for sustaining life systems and how climatic factors will change the course of the processes.

**Print ISBN: 9781682508435 | \$165 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Global Climate Change and Human Life

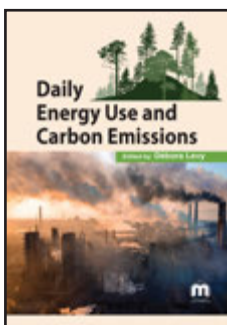
*Editor: Tingting Hu*

Sea levels are rising and oceans are becoming warmer. Longer, more intense droughts threaten crops, wildlife and freshwater supplies. From polar bears in the Arctic to marine turtles off the coast of Africa, our planet's diversity of life is at risk from the changing climate. This book presents understanding of how climate is changing with an understanding of how those changes may affect human health can inform decisions about mitigating (reducing) the amount of future climate

change, suggest priorities for protecting public health, and help identify research needs.

**Print ISBN: 9781682508442 | \$165 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Daily Energy Use and Carbon Emissions

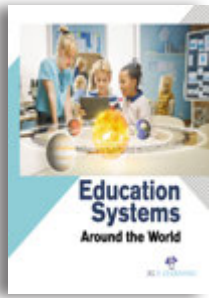
*Editor: Débora Levy*

It is without doubt that one of the most severe problems of the modern world is climate change and its important negative consequences to the environment. Human activity, especially the consumption of energy, has been considered one of the main factors contributing to the changing climate in the previous decades. Because of the global warming problem, there is a growing concern about scarce energy sources on one hand, and a

new paradigm of a green economy on the other. This book aims to understand how the economic growth, energy consumption and carbon emission in the region evolved during the last few decades and how these variables link to each other.

**Print ISBN: 9781682508459 | \$165 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



## Education Systems Around the World

- It focuses on the material and economic pre conditions for schooling and learning as well as on the diffusion of educational systems and institutions through borrowing and transfer.
- The book also highlights the functions and aims assigned to education in different political systems.

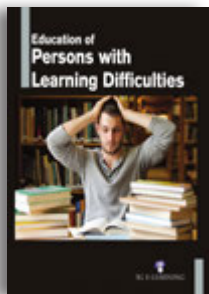
ISBN: 9781984679093 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Fundamental Aspects Learners with Special Needs

- With the help of this book, educators will be inspired to teach students with disabilities in inclusive settings and be properly equipped to do so effectively.
- Provides a good description of the special educational needs of different categories of students, the challenges confronted by special education teachers and specific strategies to be adopted to help the students.

ISBN: 9781984679185 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Education of Persons with Learning Difficulties

- Addresses learning disabilities, the practices, processes, and systems described may be also used to improve the identification of other disabilities commonly encountered in schools.
- This book explores the epidemiology, neurobiological bases, and diagnostic tools necessary for a comprehensive assessment of children with learning disabilities.

ISBN: 9781984679208 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Assessment of Children with Special Needs

- Addresses learning disabilities, the practices, processes, and systems described may be also used to improve the identification of other disabilities commonly encountered in schools.
- This book aims to emphasize assessment in the service of prevention, of teaching, and of mainstreaming and integration.

ISBN: 9781984679222 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Career development and Counseling

- The purpose of this book is to provide students with an understanding of career development and the role of the career counselor.
- The book is designed to examine theories of career development and decision making, sources of occupational information and methods of career counseling, assessment and program planning.

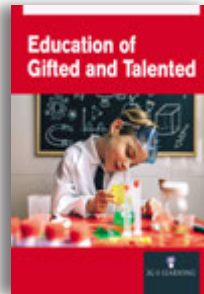
ISBN: 9781984679178 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Introduction to Special Needs and Inclusive Education

- Demonstrates how the fields of special education and inclusive education have evolved philosophically and technically over the past years.
- Discusses these issues and challenges against the background of the existing educational system.

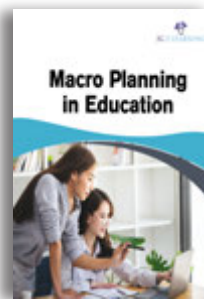
ISBN: 9781984679192 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Education of Gifted and Talented

- Provides a comprehensive overview of key challenges in the field of gifted education.
- Featuring coverage on a broad range of topics, such as constructivism, diversity responsive method, and teacher training.

ISBN: 9781984679215 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

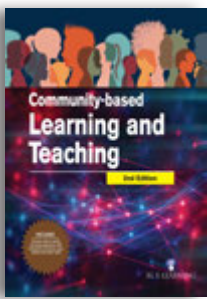


## Macro Planning in Education

- Macro-planning in education focuses on the broad dimensions of the system and its relationships with the economy and society.
- Highlights the current ideas about the what, why and how of educational change and what these suggest about the essential issues that change policy makers and planners need to consider.

ISBN: 9781984679239 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



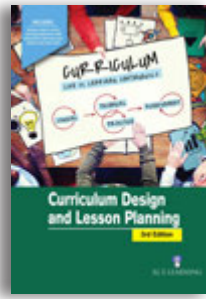


## Community-based Learning and Teaching (2nd Edition) (with Access Code)

EDITION ②

- Community-based learning refers to a wide variety of instructional methods and programs that educators use to connect what is being taught in schools to their surrounding communities, including local institutions, history, literature, cultural heritage, and natural environments.
- This book will cover the theory and practice of using CBR in a variety of university- and community-based educational settings.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

ISBN: 9781984679512 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

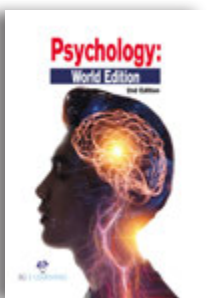


## Curriculum Design and Lesson Planning (3rd Edition) (with Access Code)

EDITION ③

- This book introduces students to the ideas and procedures involved in curriculum development, innovation and evaluation.
- An understanding of how curriculum design facilitates student-learning opportunities will be examined.
- In its updated third edition, this book has been extensively revised on a chapter by chapter basis.

ISBN: 9781984679529 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

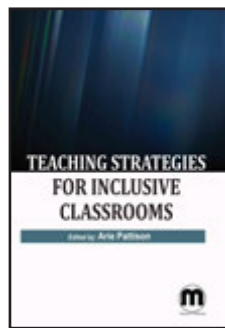


## Psychology: World Edition (2nd Edition)

EDITION ②

- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.
- Presents an overview of the latest information on various topics in psychology, such as cognition, motivation, learning, memory, and abnormal psychology.
- Discusses psychology in the light of its historical development, some of the major controversies, and considers such areas as social, developmental and cognitive psychology.

ISBN: 9781984680693 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



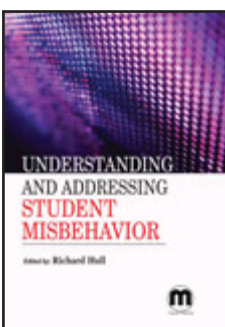
## Teaching Strategies for Inclusive Classrooms

Editor: Arie Pattison

Inclusive teaching strategies emphasize accommodating diverse learning needs and creating an environment where all students feel valued and engaged. These strategies may include differentiated instruction, cooperative learning, and the use of assistive technologies, aiming to promote equal access to education and foster positive learning experiences for every student. This book offers valuable insights and practical guidance for educators on creating inclusive learning environments. With a focus on diversity, equity, and inclusion, the book provides teaching strategies that cater to the needs of all students, including those with disabilities, cultural differences, and diverse learning styles. It emphasizes the importance of fostering an inclusive classroom culture that promotes academic success and social-emotional well-being for every student.

Print ISBN: 9781682508756 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



## Understanding and Addressing Student Misbehavior

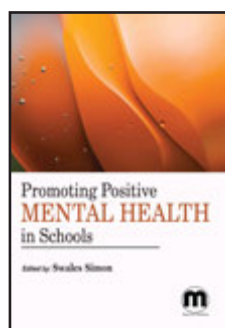
Editor: Richard Hull

Understanding the underlying causes of student misbehavior is essential for effective intervention. By implementing strategies such as restorative justice practices, behavior contracts, and individualized support, educators can address the root causes of misbehavior and create a positive and conducive learning environment for students. This book provides educators with a comprehensive framework for understanding the underlying

causes of student misbehavior and implementing effective interventions. The book explores various factors that contribute to misbehavior, such as social-emotional issues, academic challenges, and environmental factors.

Print ISBN: 9781682508763 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



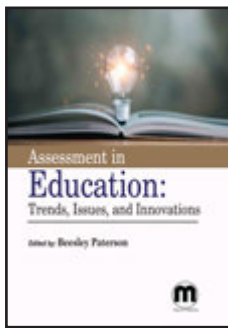
## Promoting Positive Mental Health in Schools

Editor: Swales Simon

Schools play a vital role in promoting positive mental health by implementing strategies such as mental health education, access to counseling services, and creating a supportive and inclusive school culture. By prioritizing mental well-being, schools can help reduce stigma, build resilience, and support the overall development of students. This book focuses on the critical role schools play in supporting students' mental health and well-being. The book emphasizes the importance of creating a positive school climate that nurtures students' emotional and psychological needs. It provides educators with practical strategies for promoting resilience, fostering positive relationships, implementing preventive programs, and responding effectively to mental health challenges among students, ultimately fostering a supportive and thriving school community.

Print ISBN: 9781682508770 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



## Assessment in Education: Trends, Issues, and Innovations

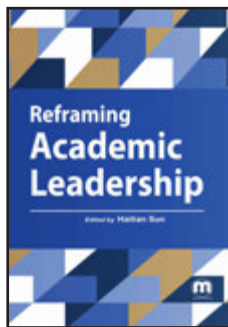
Editor: *Beesley Paterson*

Assessment in education serves as a valuable tool to measure student learning, provide feedback, and inform instructional strategies. With a balanced approach that includes formative and summative assessments, educators can effectively monitor student progress, identify areas for improvement, and personalize instruction to meet individual learning needs. The book examines current trends and issues in assessment practices,

such as formative assessment, personalized learning, and the integration of technology in assessment. It also highlights innovative approaches and emerging technologies that have the potential to transform assessment practices and enhance student learning outcomes.

Print ISBN: 9781682508787 | \$160 | 2024 | Hardcover |

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## Reframing Academic Leadership

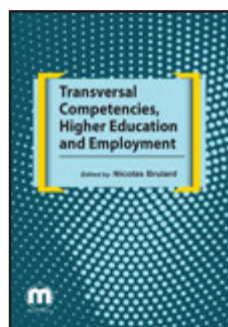
Editor: *Haitian Sun*

The COVID-19 pandemic has been a sharp reminder that large scale, unpredictable events always bring about profound changes with significant consequences on many levels. In light of lockdown measures taken in many countries across the world to control the spread of the virus, academics were "forced" to adapt and move to online settings all teaching, mentoring, research, and support activities. This book illustrates the unique demands of leadership in academia, a context

which is currently characterized by changing conditions and developments such as new public management and heightened international competition. This book also covers innovative methods and technologies dealing with academic leadership.

Print ISBN: 9781682508398 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Transversal Competencies, Higher Education and Employment

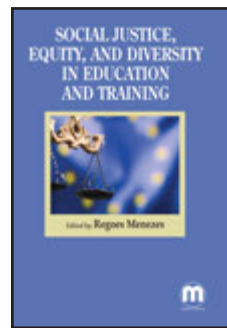
Editor: *Nicolas Brulard*

Transversal competences are considered to be the general understanding of learning how to apply the information that has been acquired to solve problems of different nature in different environments with regards to the related area of study. The perspective of basing higher education on an approach of adequately defined competences starting from professional requirements and the labor market has led to the transition from an

industrial to a post-industrial society, which is clearly more complex. This book involves the investigation in competence-based university training with a focus on curricular development. To achieve this, this book explores the implementation of transversal competences.

Print ISBN: 9781682508374 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Social Justice, Equity, and Diversity in Education and Training

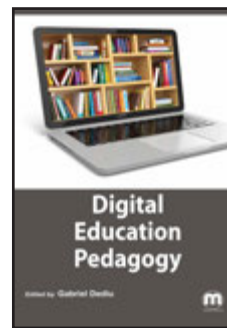
Editor: *Regoes Menezes*

It is crucial to prioritize social justice in education by promoting equitable access to quality education and creating inclusive learning environments that celebrate diversity. By addressing systemic barriers, fostering cultural competency, and providing equal opportunities, we can work towards a more just and equitable education system. This is a comprehensive book that explores the crucial aspects of creating an inclusive educational environment.

It deals with the importance of addressing social justice issues, promoting equity, and embracing diversity within the realm of education and training.

Print ISBN: 9781682508794 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



## Digital Education Pedagogy

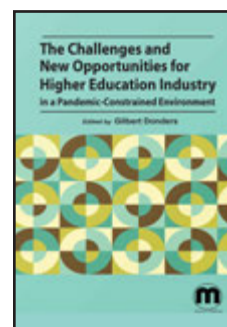
Editor: *Gabriel Dediu*

Digital Pedagogy is precisely not about using digital technologies for teaching and, rather, about approaching those tools from a critical pedagogical perspective. So, it is as much about using digital tools thoughtfully as it is about deciding when not to use digital tools, and about paying attention to the impact of digital tools on learning. This book explores why teachers need to develop a digital pedagogy. It examines the changing nature of students and the context in which we teach. Students and their parents expect that children will learn

and be taught via digital technologies. It's a strong imperative: we either up-skill and embrace digital technologies or we get left behind by our students.

Print ISBN: 9781682508404 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



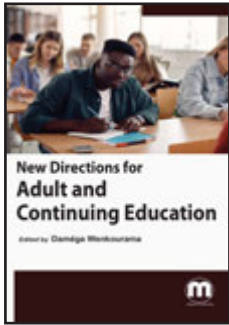
## The Challenges and New Opportunities for Higher Education Industry in a Pandemic-Constrained Environment

Editor: *Gilbert Donders*

Crisis requires society to renew itself, albeit in a disruptive way. The current Covid-19 pandemic is transforming ways of working, living, and relating to each other on a global level, suddenly and dramatically. This book focuses on the field of education to show how higher education institutions are undergoing radical transformations driven by the need to digitalize education and training processes in record time with academics who lack innate technological capabilities for online teaching. This book also explain some barriers and challenges that universities encounter, as well as technological resources and methodologies they have used in the current scenario to transform higher education.

Print ISBN: 9781682508381 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



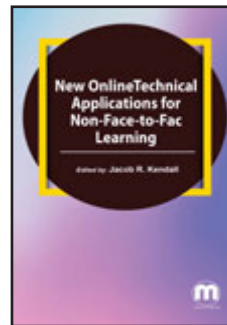
### **New Directions for Adult and Continuing Education**

*Editor: Daméga Wenkourama*

Economic conditions are one of the main reasons driving demand for continuing education, and many people enroll in continuing education programs during recessions. There are many wide-ranging reasons why you might want to consider getting additional education. From better wages to personal improvement, here are just some of the reasons that you might want to consider going back to school. This vital resource provides educators and scholars with an understanding of the current research, theory, and practice needed in order to develop a deeper appreciation of adult education and its influence on our broader culture.

**Print ISBN: 9781682508350 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### **New Online Technical Applications for Non-Face-to-Face Learning**

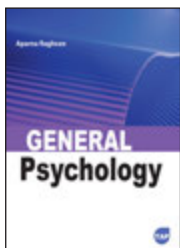
*Editor: Jacob R. Kendall*

Face to face learning and eLearning are two different approaches to teaching. The application of new technologies and simulations encompasses teaching-learning processes in a growing number of areas. In addition, the rapid evolution and diffusion of technology as well as the obsolescence suffered by this type of applications compel us to maintain a constant development of new tools. This book addresses the development of updated

didactic technical tools and including the application possibilities that these technologies offer to users.

**Print ISBN: 9781682508367 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



## General Psychology

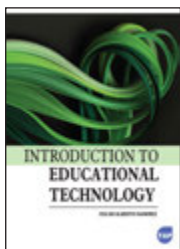
**Aparna Raghvan**

Psychology is the scientific study of behavior and mental processes. This book presents a comprehensive study of the fundamental principles, issues, and methodologies that form the basis of the field of psychology. It explores various areas of psychology, including human behavior, growth, and development, emotions, motivation, learning, perception, thinking, memory, intelligence, personality, psychological testing, and behavior. The book aims to provide readers with a broad understanding of the field of psychology, covering a wide range of topics from basic human behavior to complex mental processes. It serves as an introductory textbook for students of psychology, as well as a reference guide for professionals and researchers in the field.

Copyright 2024 | PB 9781774697061 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Aparna Raghavan is a Counseling Psychologist with experience for about 9 years. She has done her M Phil from the University of Madras. She is an in house counselor at one of the top university in India. She has published multiple papers in many journals and have already published a number of books. She also has her experience and expertise in teaching children for more than 9 years.



## Introduction to Educational Technology

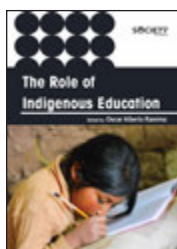
**Oscar Alberto Ramirez**

Technology can be a powerful tool for transforming learning. It can help affirm and advance relationships between educators and students. This book explores the use of technology in education. The book covers a range of topics, including the history of educational technology, instructional design, multimedia and online learning, and the use of technology in assessment. Written in an accessible and engaging style, the book provides readers with a solid foundation in the theory and practice of educational technology. It also offers practical strategies for integrating technology into the classroom and enhancing the learning experience for students. Whether you are a teacher, instructional designer, or student of education, this book is an essential resource for understanding the role of technology in modern education.

Copyright 2024 | PB 9781774697238 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Oscar Alberto Ramirez Amado, holds a PhD in Education and a Diploma in Research. He is currently an Associate Professor at the Universidad Nacional Experimental Simón Rodríguez (Maracay-Venezuela), in the areas of Education, Mathematics, Statistics, Information and Communication Technologies, and Thesis Tutoring. He is also a Freelance and Expert in Research Methodology, Spanish-English and English-Spanish Translations, Proofreading in Spanish and English; and Content Writing under SEO strategies.



## The Role of Indigenous Education

**Oscar Alberto Ramirez**

This book takes the readers through several aspects of Indigenous Education. This book gives a brief introduction to indigenous education, overview of formal and informal indigenous education, indigeneity and global citizenship, importance of language, barriers to indigenous student success, Indigenous education & digital technology and indigenous knowledge as education. The book briefly explains leadership challenges in indigenous education.

All these topics are detailed throughout the book in each of its chapters: Chapter 1: Indigenous Education: Introduction, Chapter 2: Overview of Formal and Informal Indigenous Education, Chapter 3: Indigeneity and Global Citizenship, Chapter 4: Indigenous Education and Importance of Language, Chapter 5: Leadership challenges in Indigenous Education, Chapter 6: Barriers In Indigenous Higher Education, Chapter 7: Indigenous Education and Digital Technology. The first chapter stresses on the basic introduction to indigenous education, challenges of indigenous peoples with regards to education, traditional education & modern education, so that the readers are clear about the philosophies behind that form the utmost basics in the field. This chapter will also emphasize on purpose and impact of colonial education. The second chapter takes the readers through the overview of formal and informal indigenous education. This chapter will provide highlights on the various key aspects like formal and informal educational systems, relations of power and educational distinctions, knowledge boundaries & dynamics of knowledge systems and knowledge relations, formal and informal learning etc. Then, the third chapter explains indigeneity and global citizenship. It also explains globality and indigeneity: dialectic dimensions of identity, a globalizing indigenous people- the Hadza of Tanzania, The Jews of Israel, global citizenship and discourses of global citizenship. The fourth chapter introduces indigenous education and importance of language. This chapter also indigenous education in political context, Benefits of Indigenous education, challenges of Indigenous education, effect of globalization on indigenous education and drawbacks and difficulties of responding to climate change. The chapter also sheds light on Indigenous people and renewable energy projects. The fifth chapter throws light on leadership challenges in indigenous education. The chapter explains rights of indigenous people, roles of indigenous modes of Education in contemporary society, future of indigenous education and indigenous education and societal issues. The sixth chapter takes the readers through barriers in indigenous higher education. The readers are then told about the assimilationist anti-indigenous education model, an indigenous paradigm, indigenous experience in higher education, barriers in indigenous higher education and in Students success. In the last chapter of this book sheds lights on indigenous education and digital technology, history of digital technology, benefits of digital technology, indigenous cultures and the internet, benefits of using digital resources, and global need for indigenous education & decolonization. This chapter also mentions various educational approaches to indigenous education. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with various aspects of Indigenous Education, so that they are updated with the information. I hope that the readers find the book explanatory and insightful and that this book is referred by the scholars across various fields. With this book, "Role of Indigenous Education", the aim is to free students from the anxiety caused by evaluations. The importance of continuous and holistic assessment is emphasized.

Copyright 2023 | HB 9781774694718 | Price: \$165 | Publisher: Society Publishing

### About the Editor

Oscar Alberto Ramirez Amado, holds a PhD in Education and a Diploma in Research. He is currently an Associate Professor at the Universidad Nacional Experimental Simón Rodríguez (Maracay-Venezuela), in the areas of Education, Mathematics, Statistics, Information and Communication Technologies, and Thesis Tutoring. He is also a Freelance and Expert in Research Methodology, Spanish-English and English-Spanish Translations, Proofreading in Spanish and English; and Content Writing



## Teaching English to People with Learning Disabilities: A Sensitive and Effective Pedagogy

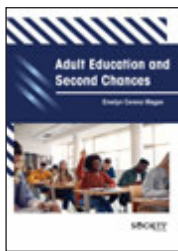
**Aimee Concepcion Chavez**

The overall approach to instructing students with learning disabilities is highlighted in this book. It covers instructing techniques for students with learning disabilities and neurobiological foundations, clinical characteristics, and treatment approaches. Alongside describing the complexities and possibilities of teaching students with learning disabilities, it also identifies the concepts of engaging students with complicated learning problems.

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### About the Author

Aimee Concepcion C. Chavez is a Licensed Professional Teacher. She is an Associate Professor at Laguna State Polytechnic University, Philippines and the Chairperson of Extension and Training Services of LSPU Siniloan Campus. She handles General Science and Physical Science subjects, Professional Education subjects and Methods of Research in both the undergraduate and graduate programs of the College of Teacher Education. She finished Bachelor of Science in Chemical Engineering, Master of Arts in Teaching major in Science and Technology and have completed the academic requirements of the degree Doctor of Philosophy in Education major in Educational Leadership and Management. She is an Associate Member of the National Research Council of the Philippines and believes that in contributing to the body of knowledge, quality of life will be improved.



## Adult Education and Second Chances

**Emelyn Cereno Wagan**

Adult education is promoted as a way for those who have fallen behind in society owing to a lack of education and training to be given a second opportunity through a system that has been sold to them as giving them a second chance. Adult education has the ability to assist students in increasing their social standing, level of involvement, and degree of freedom in a manner that is congruent with the values of democracy. In social contexts in which adults are significant consumers of adult education but adults themselves do not participate in adult education, the value of education and training is almost completely inverted from what it would be in contexts in which adults are significant participants in adult education. Non-participants exist in a passive or educationally immune environment. This is in stark contrast to the approach that highly educated people take to adult education, which centers on job advancement. This approach reflects the highly educated people's desire to stand out socially.

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### About the Author

Dr. Emelyn Cereno Wagan obtained her Doctorate Degree major in Educational Management at Polytechnic University of the Philippines in Manila. She's also a graduate of Master in Business Education, Bachelor in Business Education at that same university. Currently, Assistant Professor 4 and lecturer at Laguna State Polytechnic University, Graduate Studies and Applied Research; Research Unit Head at College of Business Management and Accountancy. Business Administration Program Coordinator, Former English Professor at Thai Nguyen University, Vietnam. Former Campus Director, Laguna State Polytechnic University Cabuyao Campus. Former Principal, LSPU Laboratory High School, Los Banos. She has written several Education Textbooks for college and senior high school students. A researcher, a thesis and dissertation technical editor, an extensionist and speaker in various organizations. She served the academe for almost 30 years. She was recognized and Awarded by Asia Pacific Region: "Outstanding Trusted Premier Asian Achiever in Professional Higher Education 2018". LSPU ISO 9001-2008 Internal Quality Auditor and Model educator awardee in 2019. Ltc Wagan, also, an active volunteer, at 403rd Ready Reserve Infantry Battalion, 403rd (Laguna) Community Defense Center, 4th Regional Community Defense Group since 2015 up to the present. She was a recipient of (3M) Military Merit Medal 2020 during (HADR) humanitarian assistance and disaster relief operations.



## A Value-based Education for this Century: New Techniques and Approaches

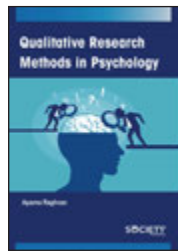
**Karen Ang-Manaig**

We have seen that religion supports discrimination against sexual minorities in the name of supporting moral values. In a world where divorced and gay couples are commonplace, the tastes of cisgender, heterosexual, and monogamous couples may seem archaic. Therefore, critics argue that so-called moral education is just the case of an organized religion looking for ways to reinvigorate its malicious retention of public affairs. This book explores the landscape of value-based education as well as the discussions that are placed in the context of communities that have set priorities for educators and the institutions that employ them.

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### About the Author

Karen Ang Manaig holds the position of Assistant Professor II and is the current Associate Dean of the College of Teacher Education at LSPU Los Baños Campus, Los Banos, Laguna. She is a graduate of Doctor of Education Major in Educational Management, from the same institution. As a research enthusiast, Dr. Manaig had multiple research publications in international refereed and Scopus-Indexed journals. Likewise, these research papers were presented at national and international conferences in Asian countries. Further, one of her research papers won the Excellence in Research Awards as the Best Research Paper in the Natural and Applied Science Category during the 3rd International Research Conference on Higher Education, organized by the Commission on Higher Education, Department of Science and Technology-NCR, Philippine Higher Education Research Consortium, Asia Pacific Consortium of Researchers and Educators Inc. (APCORE) & Polytechnic University of the Philippines (PUP) in the year 2015. At present, she had published multiple books in education in Canada. In terms of her research accomplishments, her research papers had garnered 89 citations as of July 5, 2022 at Google Scholar consisting of four high indexes and three i10 indexes. Also, she holds two Utility Model Patents at the Intellectual Property Office of the Philippines. Likewise, she is a member of the Editorial Board of the International Journal of Business and Economic Affairs and a Peer Reviewer at the International Journal on Research in STEM Education.



## Qualitative Research Methods in Psychology

**Aparna Raghvan**

An introduction to qualitative research in psychology is provided in the beginning chapter of this book. It mentions the method of collecting data for qualitative research in addition to the visual techniques employed. Furthermore, it examines the different application forms of qualitative research, together with discourse and narrative analytical techniques.

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### About the Author

Aparna is a research graduate pursuing her PhD in Psychology. She has a M Phil in Psychology and masters in Counseling Psychology. She has certifications in Cognitive Behavioral Therapy from the Beck Institute and in Expressive Art Therapy. She has also done various courses in Play Therapy, Research Methodology and Dance-Movement Therapy. With practicing experience for about 9 years, she consults in various medical centers and hospitals.



## Various Types of Assessment in Education

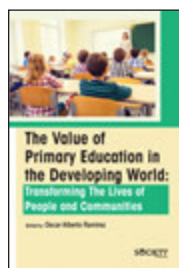
**Oscar Alberto Ramirez**

This book entitled, “Various types of assessment in education. Monitoring and evaluating success and failure in pedagogy”, presents the assessment, a key component of education because it determines the extent to which pedagogy has been successful in imparting knowledge to learners. Thus, assessment comprises a wide variety of tools and methodologies that educators rely on to document, measure, monitor, and evaluate learners’ educational needs, skill acquisition, learning progress, and academic readiness. Assessments are often equated with traditional tests or examinations. It is a branch of standardized testing that was developed by companies to be administered to large populations of students. Educators are moving away from the idea that standardized tests are the only component of assessment. Instead, they seek an increasingly diverse set of methods and tools that can measure complex and sophisticated benchmarks. Other tests are so advanced that they are used internationally for comparative studies of educational achievement. Thus, the norm has been established that assessments serve several functions in much the same way as the process of pedagogy. In addition, assessment requires the creation of new knowledge and the imaginative application of pre-existing knowledge. Students may be required to read and analyze different texts to conclude the content. Others require the practical development of tools that can facilitate social life. Assessments can be used to identify the weaknesses of learners, or some of them, which are then addressed by reconfiguring the curriculum or teaching method. Assessment can identify learner strengths to provide new and better opportunities for learners. An example of this is that assessments can identify advanced learners who require special forms of pedagogy. In the same vein, these assessments are critical in diagnosing or identifying learners with special needs. A specialized educational program can then be prepared and implemented to respond to the identified challenges. In other words, the assessment process can be positive or negative depending on how it is conceived and operated. All these topics are detailed throughout the book in each of its chapters: Chapter 1: Typologies of assessment Part A, Chapter 2: Typologies of assessment Part B, Chapter 3: Typologies of assessment Part C, Chapter 4: Modalities in education and assessment, Chapter 5: Priorities in education and assessment, Chapter 6: Support for teachers and learners in assessment, Chapter 7: Key challenges in education and assessment, Chapter 8: The future of educational assessment and reform agendas. In this book, “Various types of assessment in education. Monitoring and evaluating success and failure in pedagogy”, the aim is to free students from the anxiety caused by evaluations. The importance of continuous and holistic assessment is emphasized.

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### About the Editor

Oscar Alberto Ramirez Amado, holds a PhD in Education and a Diploma in Research. He is currently an Associate Professor at the Universidad Nacional Experimental Simón Rodríguez (Maracay-Venezuela), in the areas of Education, Mathematics, Statistics, Information and Communication Technologies, and Thesis Tutoring. He is also a Freelance and Expert in Research Methodology, Spanish-English and English-Spanish Translations, Proofreading in Spanish and English; and Content Writing



## The Value of Primary Education in the Developing World: Transforming the Lives of People and Communities

**Oscar Alberto Ramirez**

This book, entitled “The Value of Primary Education in the Developing World: Transforming the Lives of People and Communities”, reaffirms to those in the world of education that the key to success is a forward-thinking educational model. This is demonstrated by several studies that indicate the positive relationship between education and prosperity, as well as well-being in many cases. Given the limited funds available for education, some countries have focused on primary education as a starting point toward higher education. The reasoning is that if you educate children while they are still young, you have the opportunity to give them the skills and confidence to explore the world later in life. Primary education is going to be the key to sustainable development. Therefore, it must be understood and contextualized in terms of the different people accessing this type of social service. The education provided to children must be meaningful and relevant to their context. At the same time, education must prepare young people to be competitive in the global scenario, where there is a high rate of unemployment and the growing threats of technology, which will take away many of the jobs that were traditionally available to young people. Promptly, the different necessary contents to be used in elementary school today are presented, such as concepts and purposes; the binding information and communication technology; the theory and philosophy behind it; the knowledge that sustains it; limitations and possibilities; the pandemic and its effects; the classic models and their presence in the future. Countries seeking prosperity will need to invest in primary education. However, that investment must be based on the experiences of those that have implemented universal and partial education systems. This publication aims to explore the scope and limitations of primary education as a fundamental tool for countries worldwide in educating their citizens. Its natural audience is university students in the fields of education, regardless of their specialization. Therefore, this book is written from an eclectic, multidisciplinary and interdisciplinary perspective. After all, that is the nature of education, regardless of whether it is primary or presented in other ways. I hope you enjoy reading the book and that you will learn something from it. This topic is detailed throughout the book in each of its chapters: Chapter 1: Introduction to Primary Education, Chapter 2: Finding Purpose in Primary Education, Chapter 3: Contemporary Perspectives on Primary Education, Chapter 4: New Horizons for Primary Education, Chapter 5: Key Learning Priorities for Primary Education, Chapter 6: Philosophical Debates and Approaches to Primary Education, Chapter 7: Innovation in Primary Education, Chapter 8: The Future of Primary Education, Chapter 9: Concluding Remarks. This book, “The Value of Primary Education in the Developing World: Transforming the Lives of People and Communities,” attempts to present how the countries of the world can improve their educational models. It also seeks to make readers and society aware of the wide range of benefits and positive impacts of incorporating trends in primary education as a fundamental means of developing the education of the citizens of the future.

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### About the Editor

Oscar Alberto Ramirez Amado, holds a PhD in Education and a Diploma in Research. He is currently an Associate Professor at the Universidad Nacional Experimental Simón Rodríguez (Maracay-Venezuela), in the areas of Education, Mathematics, Statistics, Information and Communication Technologies, and Thesis Tutoring. He is also a Freelance and Expert in Research Methodology, Spanish-English and English-Spanish Translations, Proofreading in Spanish and English; and Content Writing



## The Role of Secondary Education in Sustainable Development

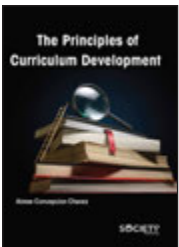
**Emelyn Cereno Wagan**

An explanation of secondary education and sustainable development is provided throughout this book. Various significant challenges in secondary education were also covered. Furthermore, this book explains the function of formal schooling and how to establish an environment that encourages it. Features on secondary education's future are provided in this book.

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### About the Author

Dr. Emelyn Cereno Wagan obtained her Doctorate Degree major in Educational Management at Polytechnic University of the Philippines in Manila. She's also a graduate of Master in Business Education, Bachelor in Business Education at that same university. Currently, Assistant Professor 4 and lecturer at Laguna State Polytechnic University, Graduate Studies and Applied Research; Research Unit Head at College of Business Management and Accountancy, Business Administration Program Coordinator, Former English Professor at Thai Nguyen University, Vietnam. Former Campus Director, Laguna State Polytechnic University Cabuyao Campus. Former Principal, LSPU Laboratory High School, Los Banos. She has written several Education Textbooks for college and senior high school students. A researcher, a thesis and dissertation technical editor, an extensionist and speaker in various organizations. She served the academe for almost 30 years. She was recognized and Awarded by Asia Pacific Region: "Outstanding Trusted Premier Asian Achiever in Professional Higher Education 2018". LSPU ISO 9001-2008 Internal Quality Auditor and Model educator awardee in 2019. Ltc Wagan, also, an active volunteer, at 403rd Ready Reserve Infantry Battalion, 403rd (Laguna) Community Defense Center, 4th Regional Community Defense Group since 2015 up to the present. She was a recipient of (3M) Military Merit Medal 2020 during (HADR) humanitarian assistance and disaster relief operations.



## The Principles of Curriculum Development

**Aimee Concepcion Chavez**

In today's knowledge economy, curriculum development plays a vital role in improving the economy of a country. The requirements of a curriculum may stipulate the presence of an instructor or facilitator that is highly qualified and experienced so that they can help to deliver the content of the curriculum. This book is intended to explore the conceptualization and operationalization of curriculum development in contemporary educational settings. The book will highlight the different typologies of curricula that are referenced today. We consider the importance of curricula in the development and prioritization of school-based activities. Moreover, this book contextualizes curriculum development in a global village where there is an increased demand for participation and inclusiveness.

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### About the Author

Aimee Concepcion C. Chavez is a Licensed Professional Teacher. She is an Associate Professor at Laguna State Polytechnic University, Philippines and the Chairperson of Extension and Training Services of LSPU Siniloan Campus. She handles General Science and Physical Science subjects, Professional Education subjects and Methods of Research in both the undergraduate and graduate programs of the College of Teacher Education. She finished Bachelor of Science in Chemical Engineering, Master of Arts in Teaching major in Science and Technology and have completed the academic requirements of the degree Doctor of Philosophy in Education major in Educational Leadership and Management. She is an Associate Member of the National Research Council of the Philippines and believes that in contributing to the body of knowledge, quality of life will be improved.



## Alternative Education in Unconventional Environments

**Lester B. Ramirez**

This book explains the introductory concepts of alternative education and its associated problems. Learning theories that regulate the education process is described in detail. Modern tools like e-learning and ICT in the education sector are discussed. The role of education technology and distance learning in enhancing the education system is described. Finally, the models that govern the alternative education and curriculum were explained in detail. This book can be used for students who are pursuing graduate and undergraduate courses.

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### About the Author

Lester B. Ramirez earned his Master's Degree in Educational Management major in Administration and Supervision at Dr. Carlos Lanting College in 2017 and his Baccalaureate Degree at Laguna State Polytechnic University with a degree of Bachelor of Secondary Education major in English in 2007. He is a former Course Consultant at Informatics International College-Quezon City, Part-time Lecturer at AMA University and Marketing Director and Senior High School Department Head at College of St. Catherine Quezon City. With his academic achievement and professional experience, he is currently connected at DepEd Laguna as Senior High School Faculty at Santa Maria Integrated High School and presently enrolled Doctor of Education major in Educational Management and Leadership at Arellano University-Manila.



## Quantitative Research Methods in Psychology

**Aparna Raghvan**

An overview of quantitative psychology research is presented in this book. Together with data analysis, systemic equations, and longitudinal designs, it goes on to discuss layout and functionality, different assessment concepts, the importance of scaling in quantitative research, and information gathering.

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### About the Author

Aparna is a research graduate pursuing her PhD in Psychology. She has a M Phil in Psychology and masters in Counseling Psychology. She has certifications in Cognitive Behavioral Therapy from the Beck Institute and in Expressive Art Therapy. She has also done various courses in Play Therapy, Research Methodology and Dance-Movement Therapy. With practicing experience for about 9 years, she consults in various medical centers and hospitals.



## Engineering Mechanics

**Dr. Abdul Basit Saim**

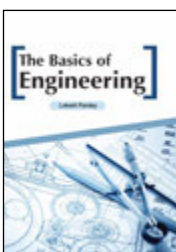
### About the Author

“Dr. Muhammad Abdul Basit who is currently serving as Associate Professor at primarily did his Bachelors in Metallurgy and Materials Engineering from UET Lahore, Pakistan in 2006. Owing to his R&D experience in automotive manufacturing experience and academic career at Bahauddin Zakariya University, Multan, he was awarded

MS-leading PhD scholarship by HEC, Pakistan, so he joined Nano-device Engineering Laboratory at Hanyang University South Korea in 2011. He is an expert in the area of fabrication processes for photo-electrochemical solar cells, screen-printing process for development of sensitizable photoanodes using various semi-conduction materials, various wet-chemistry techniques for development of quantum-dots and counter electrodes for photo-electrochemical solar cells. His area of specialization is quantum-dot-sensitized solar cells. He more than 100 international publications in reputed journals including various prestigious conference proceedings and has delivered many an invited talks at local and international forums. In addition, he has published multiple book chapters and covers articles (including Chemistry of Materials), while he has also been selected for a prestigious fully funded Postdoc-NeT 2017 Researchers Networking program by DAAD (German Academic Exchange Service) regarding the perspectives in German materials science and nanotechnology.

This book explores the fundamental principles of mechanics, including statics and dynamics. It covers topics such as forces, vectors, equilibrium, motion, energy, and momentum. The book is designed to provide a solid foundation for students of engineering and physics, and to prepare them for more advanced coursework in the field. With its comprehensive coverage and practical approach, Engineering Mechanics is an essential resource for anyone studying or working in the field of engineering.

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## The Basics of Engineering

**Lokesh Pandey**

### About the Author

Lokesh Pandey is currently pursuing his PhD in Mechanical Engineering from Uttarakhand Technical University, India, where he also completed his M.Tech in Thermal Engineering. He has more than 3 years teaching experience as a Faculty for Mechanical Engineering. He has published articles in reputed Journals and has also chaired many conferences and workshops.

The introduction to engineering, and engineering as a profession has been illustrated in this book. It throws light on the basics of mechanical engineering, engineering materials and their applications. It also discusses the engineering communications and ethics, along with the various applications of engineering across various fields.

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## Instrumentation and Control

**Dr. Yasser Elsayed**

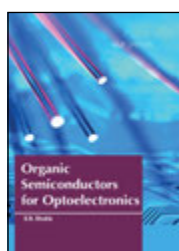
### About the Author

Yasser Elsayed works as a postdoc in energy and Power Systems, Faculty of Energy Systems and Nuclear in Ontario tech university, Canada in Energy Safety and Control Lab (ESCL). He received his B.Sc., M.Sc. (2015), and Ph.D. (2020) from Ain Shams university, Cairo, Egypt.

His area of research expertise is in smart grid, microgrid, hybrid renewable energy systems, and electrical vehicles.

This text is a comprehensive guide to the principles and practices of instrumentation and control systems. The book covers various topics related to measurement, control, and automation, including sensors, transducers, signal conditioning, data acquisition, process control, and system analysis. It is designed to provide an understanding of the fundamental concepts and techniques used in modern instrumentation and control systems. The book is an essential resource for students and professionals in the fields of engineering, science, and technology who work with instrumentation and control systems.

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## Organic Semiconductors for Optoelectronics

**S.N. Shukla**

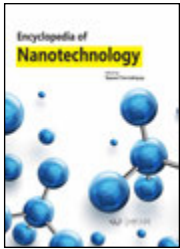
### About the Author

Dr. Sachchidanand Shukla, is presently working as Professor, Department of Physics & Electronics, Dr. RamManohar Lohia Avadh University, Ayodhya, UP, India. He did his Masters in Physics (Electronics) in 1988 and Ph.D. in 1992 from the same university. Dr. Shukla holds 27 years' experience of teaching M.Sc. (Physics) and M.Sc. (Electronics) students and 3 years experience of teaching B.Tech., MCA and B.Sc. (Electronics) students. He has published 85 research papers in peer-reviewed/ indexed journals of International/National repute & conference proceedings and 02 books. In his supervision 14 research scholars have been awarded Ph.D. degree. In addition to it he is the recipient of Best Scientist National Award (2018) of IRDP Group of Journals, Chennai and Maatee Ratan Samman (2017). He has also been selected as Fellow of IACSIT (International Association of Computer Science and Information Technology, Singapore) and Associate Fellow of IAPS (International Academy of Physical Sciences) in 2018. In view of Dr. Shukla's academic achievements his employer institution, Dr. RamManohar Lohia Avadh University, has conferred upon him the 'Certificate of Appreciation' in 2018. Besides having a wide exposure to various key positions of University administration like Pro Vice Chancellor, Registrar, Director College Development Council (CDC), Coordinator UGC and RUSA, Head of Physics Department etc, Dr. Shukla has membership of 08 academic bodies of international repute. To name a few are ISCA (The Indian Science Congress Association, Kolkata, India), IETE (The Institution of Electronics and Telecommunication Engineers, New Delhi, India), NASI (The National Academy of Sciences, India, Allahabad, India), IAPS (International Academy of Physical Sciences, Allahabad, India) and SCIEI (Science and Engineering Institute, Hong Kong, SAR of China).

“The book ‘Organic Semiconductors for Optoelectronics’ provides a thorough analysis of the topic and illustrated examples of organic semiconductors in various applications. Organic semiconductors, which are composed of polymers or  $\pi$ -bonded molecules, may conduct when charge carriers are inserted into them. The backbone of the polymeric chain containing the conjugated system of bonds enables charge transfer through the polymer chain. This textbook offers the teachers, researchers, and students an easy and thorough explanation of the principles, guidelines, and, particularly, the complicated instrumentation techniques used in optoelectronics. It discusses some recent advances in the study of the optoelectronic properties of organic semiconductors while also summarizing the fundamental ideas. Examples and applications of electronic and optoelectronic organic materials are also discussed in the book. This handbook thoroughly covers different aspects of organic semiconductors present today. Even a reader with no prior knowledge should be able to grasp the fundamental concepts of organic semiconductors after reading this book.

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## Encyclopedia of Nanotechnology

**Saeed Farrokhpay**

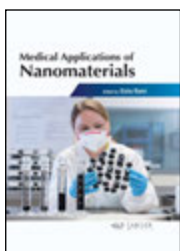
### About the Editor

*Dr Saeed Farrokhpay is a Chemical Engineer with several years of experience in mineral & material processing. He obtained his PhD from University of South Australia in 2005. He is currently a Technical Consultant in Australia. He has worked for more than 20 years at mineral and chemical industries, universities and research centers around the world. Dr Farrokhpay has published more*

*than 90 papers in high ranked journals and conference proceedings. He has also edited several technical and scientific books, and served as an editorial board member of several international scientific journals.*

Nanotechnology is the study of the nanoscale: objects around a nanometer (NM) in size. Our ability to develop enormous, complex products with nanometer accuracy is quickly evolving, and comprises of hierarchical reductive methodologies and base up additive approaches. On the other hand, nature has idealized a variety of organic tools that operate at the nanoscale, structures which regularly self-regulate driven by the atomic science of subunit combinations. This chapter describes various terminologies in nanofabrication and organic gathering, microscopy, and nanoscale natural systems. Nanotechnology includes the advancement of manmade or artificial particles and sub-atomic particles that have aspects in the nanometer range (somewhere in the range of 1 and 100 nm in some respect). When combined with biotechnology, nanotechnology becomes an incredible new stage with countless applications across a wide number of pragmatic applications including farming, indicative technology, new drugs, clinical imaging, biological sensors, and others. Currently, the quantity of possible types of nanomaterials accessible for use in biotechnological applications includes nanoparticles, nanowires, nanofibers, nanostructures, and nanomachines. The risk potential of nanomaterials is however arising, and showing that there are a few materials that have qualities that might require some level of upgrade to eliminate the chance of unfavorable impacts and an open risk. In spite of the difficulties, the commercialization of nanobiotechnology products seems to have a splendid future, and within 10 years, numerous new results of this nature are probably going to be supported and used across different sectors.

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## Medical Applications of Nanomaterials

**Esha Rami**

### About the Editor

*Dr. Esha Rami is presently working as an Assistant Professor, in the Department of Life science, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated from Ganpat University, Ph.D. in biotechnology from Hemchandracharya North Gujarat University, in the year 2015. She has authored a number of national and international publications in reputed journals.*

All other scientific disciplines, including chemistry, biology, physics, materials science, and engineering, can benefit from nanoscience and nanotechnology, which involve the study and utilization of incredibly small objects. This book presents the concept of Nano technology and its wide application in medicine. The chapters in this manual have been arranged in such a way as to provide a sequential understanding of the fundamental concepts in Nano technology and its medical application, Targeted Drug Delivery, Fundamentals of Nanobiosensors and Application of Nanomaterials in Nanopharmacology. Apart from these, this book also contains some advanced topics like Applications of Nanomaterials in Nanomedical Devices, Nanotechnology in Tissue Engineering and Gene therapy. Readers from a variety of backgrounds, such as researchers, professors, students, and biological scientists, will find this book to be equally helpful. Additionally, this book can help readers with backgrounds in other fields understand the basics of Nanotechnology and its various application.

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## Encyclopedia of Science and Technology

**Ramesh Chandra**

### About the Editor

*Prof. Ramesh Chandra is an outstanding scientist, revered teacher and an exceptionally successful administrator. He is currently heading Department of Chemistry, University of Delhi, where he is serving as Professor for the last more than 26 years and Founder Director of Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, since March 1991. He has been Vice-Chancellor, Bundelkhand University, Jhansi for six years (1999-2005); Member, Planning Commission, Government of U.P, India as well as the President of the Indian Chemical Society (2004-2006). Professor Chandra started his research career at the University of Delhi, thereafter he went to The New York Hospital-Cornell University Medical Center and the Rockefeller University, New York; State University of New York at Stonybrook, USA as Assistant Research Professor. He conducted advanced research at the Harvard University Medical School- Massachusetts General Hospital, jointly at MIT, Cambridge, USA. Over the last 38 years, Professor Chandra has contributed largely in the field of Chemical Sciences and particularly in New Drug Discovery and Development as well as Drug Metabolism. He has to his credit several patents, published more than 300 original Scientific Research Papers/ Review Articles in International journals of repute and six of his internationally acclaimed scientific Books. Prof. Chandra is the recipient of several professional national/ international recognitions; these includes: Millennium Plaques of Honor (Life Time Achievement Award for Contribution in Science & Technology) by the Indian Science Congress Association (ISCA) for 2017-2018, Award of the Highest Honor of Soka University, Tokyo, Japan (2000); I William Fulbright Scholarship (1993); The Rockefeller Foundation USA-Biotechnology Career Award (1993); and several others.*

Science and technology (S&T) is broadly acknowledged as an essential tool for promoting and strengthening a nation's socioeconomic development. This volume discusses significant advances in various fields of science and technology over the years, including a knowledgeable workforce and promoting innovative intellectual ideas. Amidst rapid globalization, fast depleting material resources, increasing institutional competition, and growing demands for intellectual property protection, the importance of strengthening knowledge base is an important issue for the scientific and technology community to recognize. Given the global economic order, the S&T sector should focus on: strengthening applied research and development (R&D) for technology generation; promoting human resource development, particularly in promoting innovative ideas; promoting research and application of science and technology for natural disaster prediction, prevention and mitigation among other spheres.

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## 3D Printing for Energy Applications

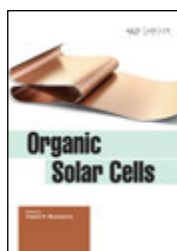
**Mukesh Pandey**

### About the Author

Prof. Dr. Mukesh Pandey is multi-skilled professional with around 30 years of rich exposure and versatile experience in Industries, Administration, Academics, Research domains and institution building. He received his B.E. from SATI Vidisha, M.Tech. from N.I.T. Bhopal and Ph.D. from RGPV, Bhopal. He played an instrumental role in the establishment of Rajiv Gandhi Technical University Bhopal, Madhya Pradesh since its inception in 1999. He served as Rector (Pro Vice Chancellor), Director SoEEM & Dean of Faculty of Energy Technology. He has looked after as Coordinator for establishing IIIT, Bhopal (under PPP Mode by MHRD). He held various administrative positions as Director (R&D), Coordinator of RGPV- NBA Nodal Centre, Dy. Registrar, Member of Engineering Accreditation Evaluation Committee [EAEC] and Moderation Committee of NBA (National Board of Accreditation). Professor Pandey works in the area of Renewable Energy and Environment having focus on Solar Thermal Energy and he has developed an Energy Technology Park at RGPV, Bhopal by making use of the renewable energy resources; Solar Roof Top Plant on University Building, Energy Systems, Solar Thin Film systems, Solar wind Hybrid System, Bio-Diesel Reactor, CO<sub>2</sub> Carbon Sequestration Unit, Dual Rotor Wind Turbine etc. Professor Pandey has an iconic track record of quality teaching, innovation and research he has been Principal Investigator of many Govt. Funded Projects by DST, MNRE, MPCST, AICTE etc including Principal Investigator of Innovative & Breakthrough Technology based 30KW CL-CSP SOLAR international R&D PROJECT (India-Japan Joint Venture Project) installed in RGPV campus. He has also facilitated as Reviewer for many national and international journals of repute and associated with many academic and research organizations at various levels. Over the past several years he has taught M.Tech. and Ph.D. Research Scholars in the areas of Energy, Environment, Direct Energy Conversion and Integrated Energy Systems and has been key-note speaker and resource person at several International and National Conferences and programmes.

3D Printing for Energy Applications is a comprehensive and cutting-edge examination of how 3D printing can be used to fabricate complicated devices in the energy sector. The book discusses topics of additive manufacturing of functional materials that can be used in the energy sector. It examines both 3D printing processes and printable materials methods and their use in energy systems or devices. This book is divided into three parts that cover functional material's 3D printing before exploring the 3D printing of energy devices. It concludes with printing issues in complicated object creation. It also offers an intriguing outlook on the future of complex device 3D printing. Ideal for materials scientists, graduate students in material sciences, chemistry, and engineering will find 3D Printing for Energy Applications useful as a one-stop reference for present and future outlooks on 3D printing of high-value-added multifaceted devices.

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## Organic Solar Cells

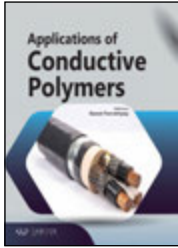
**Sujata N. Mustapure**

### About the Editor

Dr. Sujata Nagnath Mustapure (1988) is presently serving as teaching associate, Department of Electrical & Other Energy sources, College of agricultural engineering & Technology, Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani, Maharashtra. She obtained her B.Tech (Agril. Engg.) in 2010 from Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani. Gold medal in M.Tech (Agril. Engg.), 2014 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola and Ph.D in Renewable energy engineering in 2019 from Maharana Pratap University of Agriculture and Technology, Udaipur. She has also worked as assistant professor in College of Agricultural, Naigoan, Vasantao Naik Marathwada Krishi Vidhyapeet, Parbhani.

The solar energy industry is greatly subsidized for several years but the costs of inorganic/silicon solar cell power plants or panels are still not economical. A method for reducing the manufacturing costs of solar cells is to utilize organic materials that could be processed under low-demanding situations. Organic solar cells have numerous intrinsic advantages, like their flexibility, low material, lightweight, low manufacturing costs, low toxicity, and minimal environmental impact. In the past few years, organic photovoltaics (OPV) has received immense attention owing to their exceptional features, such as low-temperature synthesis, light, and cheap materials, solution processability, and tunable electronic properties. Apart from environmental and economic benefits, most of the organic solar cells (SCs) exhibit higher efficiencies which are comparable with the efficiencies of silicon solar cells. They have exhibited conversion efficiencies of more than 13% to date. This book encompasses the fundamentals of organic solar photovoltaics. The detailed content of the book addresses the photovoltaic energy conversion limits and provides a well-explained overview of molecular electronics, which focuses on the working principle, manufacturing, and characterization of polymeric solar cells. Different chapters of the book focus on the electrochemical processes taking place in organic solar cells by offering a detailed explanation of the exciton separation, charge-carrier transport, and electricity generation. The book also focuses on the experimental methodologies for getting a thorough understanding of the key photovoltaic processes in different types of polymeric solar cells. The primary focus of this book is to provide a comprehensive analysis of the fundamental features of organic solar cells.

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## Applications of Conductive Polymers

**Saeed Farrokhpay**

### About the Editor

Dr Saeed Farrokhpay is a Chemical Engineer with several years of experience in mineral & material processing. He obtained his PhD from University of South Australia in 2005. He is currently a Technical Consultant in Australia. He has worked for more than 20 years at mineral and chemical industries, universities and research centers around the world. Dr Farrokhpay has published more than 90 papers in high ranked journals and conference proceedings. He has also edited several technical and scientific books, and served as an editorial board member of several international scientific journals.

Conductive polymers are being used more and more as a substitute for metallic conductors and semiconductors. The moduli of conductive polymers are much lower than the metallic components, but they have better performance in special applications such as soft biological tissues and rubbers. Moreover, polymer constituents and manufacturing parameters can be varied to adjust the mechanical and electrical properties of these polymers. This book has eight chapters containing a broad range of application of conducting polymers. Chapter 1 is an introduction to conducting polymers and it explains the history, classification, synthesis routes and electrical properties of these polymers. Application of conductive polymers in drug delivery systems is discussed in Chapter 2 while Chapter 3 focuses on the applications of these polymers in textile industry. Chapter 4 discusses the applications of conductive polymers in development of supercapacitors and in Chapter 5, their applications in developing organic solar cells are explained. Chapter 6 summarizes applications of conductive polymers in membrane development and Chapter 7 discusses their applications in tissue engineering and medical area. Finally, a detailed description of different conductive polymers and their application in energy storage systems are discussed in Chapter 8. This book can be used as a textbook for students and researchers in materials science, chemical engineering, and polymer technology. In addition, it can be used by industrial experts and engineers who need detailed information about conductive polymers.

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## The Medical Device Handbook For Europe

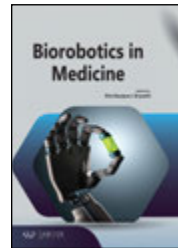
**Shalinee Naidoo**

### About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and the design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal ([www.lifeofshal.com](http://www.lifeofshal.com)) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary ([www.scientistssanctuary.com](http://www.scientistssanctuary.com)) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

As the medical device landscape continues to evolve, so does the regulatory framework in Europe. Through this process many gaps and scarcity of skills and expertise have also been identified. For this reason, there was an increasing need to update the current medical device directive (MDD 93/42/EEC) being used within the European Union. This in turn led to the development and release of the Medical Device Regulation (EU MDR 2017/745). The release of the new Medical Device Regulation (EU MDR 2017/745) in 2017 marked the start of a three-year transition period for various Economic Operators along the supply chain. This volume aims to provide a simple overview of the medical device industry in Europe with particular focus on the main aspects covered in the new European Medical Device Regulation. Important concepts such as essential phases in a device lifecycle, complying to standards and regulations, the CE mark process and classification of medical devices in Europe are covered.

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## Biorobotics in Medicine

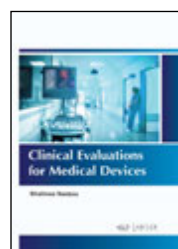
**ShivSanjeevi Sripathi**

### About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chelaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

This book presents research-backed examples of how robots are being employed to assist healthcare procedures. This becomes pertinent with repeated pandemic outbreaks. The COVID-19 pandemic has necessitated "social distancing" with robust sterilization and cleaning procedures: robots have been probed in these aspects. The book starts with examples of robots in healthcare followed by two chapters on surgical robots or case studies and examples of the potential of these machines in surgery. The concepts of nano and micro have been extended to robots with the development of "nanobots". Research is ongoing in this field aimed at employing these robots to target specific cells or deliver appropriate cargo to alter the face of drug delivery.

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## Clinical Evaluations for Medical Devices

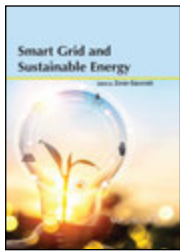
**Shalinee Naidoo**

### About the Author

Shalinee Naidoo is currently the Regulatory and Product Development Manager of a medical device manufacturer based in South Africa. She is directly involved in global regulatory compliance and the design and development of new medical devices from idea conception to market. She is also the founder of Life of Shal ([www.lifeofshal.com](http://www.lifeofshal.com)) an online travel journal created to inspire others to explore the world and Scientist's Sanctuary ([www.scientistssanctuary.com](http://www.scientistssanctuary.com)) – a science communication company that specializes in bridging the gap between scientific knowledge and creative communication for both the academic and corporate world.

Being a medical device manufacturer involves more than just manufacturing of the device itself. It is also the manufacturers responsibility to ensure adequate research is done on the device so that it can be safely used. Clinical evidence is often collected throughout the entire life cycle of a medical device and is often an ongoing process. The process starts during the design and development of the device to show safety and efficacy and is often updated even after the device is on the market. This evidence is often compiled in a Clinical Evaluation Report and presents itself a chapter of the device technical file. As the medical industry continues to evolve, so does the complexity of clinical data needed during the regulatory approval process. This volume provides an introduction into the basic concepts of clinical evaluation report writing. Important concepts such as how to conduct a literature review, claiming equivalence and when to update your clinical reports are covered.

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## Smart Grid and Sustainable Energy

Zoran Gacovski

### About the Editor

Dr. Zoran Gacovski's current position is a full professor at the Faculty of Technical Sciences, "Mother Tereza" University, Skopje, Macedonia. His teaching subjects include Software engineering and Intelligent systems, and his areas of research are: information systems, intelligent control, machine learning, graphical models (Petri, Neural and Bayesian networks), and human-computer interaction. Prof. Gacovski has earned his PhD degree at Faculty of Electrical engineering, UKIM, Skopje. In his career he was awarded by Fulbright postdoctoral fellowship (2002) for research stay at Rutgers University, USA. He has also earned best-paper award at the Baltic Olympiad for Automation control (2002), US NSF grant for conducting a specific research in the field of human-computer interaction at Rutgers University, USA (2003), and DAAD grant for research stay at University of Bremen, Germany (2008 and 2012). The projects he took an active participation in, are: "A multimodal human-computer interaction and modelling of the user behaviour" (for Rutgers University, 2002-2003) - sponsored by US Army and Ford; "Development and implementation of algorithms for guidance, navigation and control of mobile objects" (for Military Academy – Skopje, 1999-2002); "Analytical and non-analytical intelligent systems for deciding and control of uncertain complex processes" (for Macedonian Ministry of Science, 1995-1998). He is the author of 3 books (including international edition "Mobile Robots"), 20 journal papers, over 40 Conference papers, and he is also a reviewer/ editor for IEEE journals and Conferences.

This book covers different topics from smart grids and sustainable energy, including: automation and control of smart grids, sustainability and energy efficiency, security and stability of smart grids, and intelligent implementation of smart grids. Section 1 focuses on automation and control of smart grids, describing smart grids: future of electrical transmission and distribution, building automation networks for smart grids, voltage control in smart grids: an approach based on sensitivity theory, agents for smart power grids, and distributed optimal control of transient stability for a power information physical system. Section 2 focuses on sustainability and energy efficiency, describing energy efficiency in smart grid: a prospective study on energy management systems, energy efficiency and renewable energy technologies using smart grids: study case on NIPE building at UNICAMP campus, towards attaining reliable and efficient green cloud computing using micro-smart grids to power internet data center, the development of electricity grid, smart grid and renewable energy in Taiwan, and optimal power flow approach for cognitive and reliable operation of distributed generation as smart grid. Section 3 focuses on security and stability of smart grids, describing a secure and scalable data communication scheme in smart grids, S-DPS: an SDN-based DDOS protection system for smart grids, distribution system reliability analysis for smart grid applications, and approach to assess the resiliency of electric power grids. Section 4 focuses on intelligent implementations of smart grids, describing intelligent load shedding using TCP/IP for smart grids, intelligent load management scheme for a residential community in smart grids network using fair emergency demand response programs, towards implementation of smart grid: an updated review on electrical energy storage systems, and a perspective on the future of distribution: smart grids, state of the art, benefits and research plans.

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## Safety Science and Technology

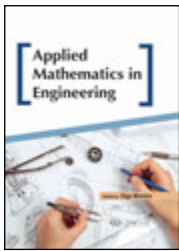
Zoran Gacovski

### About the Editor

Dr. Zoran Gacovski's current position is a full professor at the Faculty of Technical Sciences, "Mother Tereza" University, Skopje, Macedonia. His teaching subjects include Software engineering and Intelligent systems, and his areas of research are: information systems, intelligent control, machine learning, graphical models (Petri, Neural and Bayesian networks), and human-computer interaction. Prof. Gacovski has earned his PhD degree at Faculty of Electrical engineering, UKIM, Skopje. In his career he was awarded by Fulbright postdoctoral fellowship (2002) for research stay at Rutgers University, USA. He has also earned best-paper award at the Baltic Olympiad for Automation control (2002), US NSF grant for conducting a specific research in the field of human-computer interaction at Rutgers University, USA (2003), and DAAD grant for research stay at University of Bremen, Germany (2008 and 2012). The projects he took an active participation in, are: "A multimodal human-computer interaction and modelling of the user behaviour" (for Rutgers University, 2002-2003) - sponsored by US Army and Ford; "Development and implementation of algorithms for guidance, navigation and control of mobile objects" (for Military Academy – Skopje, 1999-2002); "Analytical and non-analytical intelligent systems for deciding and control of uncertain complex processes" (for Macedonian Ministry of Science, 1995-1998). He is the author of 3 books (including international edition "Mobile Robots"), 20 journal papers, over 40 Conference papers, and he is also a reviewer/ editor for IEEE journals and Conferences.

In this book we present different topics from safety science and technology, including: safety-critical systems, safety simulation techniques, safety in transport and vehicles, and safety analysis in medicine (hospitals). Section 1 focuses on safety-critical systems, describing architecture level safety analyses for safety-critical systems, safety assessment of nuclear power plants for liquefaction consequences, the Fukushima nuclear accident: insights on the safety aspects, an augmented framework for formal analysis of safety critical systems, and concepts of safety critical systems unification approach & security assurance process. Section 2 focuses on safety simulation techniques, describing the marine safety simulation based electronic chart display and information system, improved modelling and assessment of the performance of firefighting means in the frame of a fire PSA, scenario grouping and classification methodology for postprocessing of data generated by integrated deterministic-probabilistic safety analysis, demonstration of emulator-based Bayesian calibration of safety analysis codes: theory and formulation, microscopic simulation-based high occupancy vehicle lane safety and operation assessment: a case study. Section 3 focuses on safety in transport and vehicles, describing safety of autonomous vehicles, studying the safety impact of autonomous vehicles using simulation-based surrogate safety measures, advanced modeling and simulation of vehicle active aerodynamic safety, and analyzing driving safety using vehicle-water-filled rutting dynamics model and simulation. Section 4 focuses on safety analysis in medicine (hospitals), describing establishing patient safety in intensive care - a grounded theory, analysis of critical incidents during anesthesia in a tertiary hospital, healthcare professional's perception of patient safety measured by the hospital survey on patient safety culture: a systematic review and meta-analysis, and uncertainty of clinical thinking and patient safety.

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## Applied Mathematics in Engineering

**Olga Moreira**

### About the Editor

Olga Moreira is a Ph.D. and M.Sc. in Astrophysics and B.Sc. in Physics/Applied Mathematics (Astronomy). She is an experienced technical writer and data analyst. As a graduate student, she held two research grants to carry out her work in Astrophysics at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Space Agency, and the European Southern Observatory). She is currently an independent scientist, peer-reviewer and editor. Her research interest is solar physics, machine learning and artificial neural networks.

“Applied Mathematics in Engineering” is an edited book comprising 15 contemporaneous open-access articles focused on mathematical modelling, mathematical optimization, and fractal mathematics and their applications in modern engineering and industry. The first part covers a wide range of mathematical models for solving real-world problems in mechanical engineering, biomedicine, fluid dynamics, and other applications. The second part of the book presents various mathematical optimization methods and algorithms (e.g. topology optimization, hybrid arithmetic optimization, and isogeometric topology optimization) for solving engineering problems. The third part of the book is dedicated to the mathematics of fractals and its applications in the engineering of antennas, image compression technology, fracture mechanics, ophthalmology and more. The intended audience of this book is undergraduate and graduate students, as well as junior researchers.

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**Saeed Farrokhpay**

### About the Editor

Dr Saeed Farrokhpay is a Chemical Engineer with several years of experience in mineral & material processing. He obtained his PhD from University of South Australia in 2005. He is currently a Technical Consultant in Australia. He has worked for more than 20 years at mineral and chemical industries, universities and research centers around the world. Dr Farrokhpay has published more

than 90 papers in high ranked journals and conference proceedings. He has also edited several technical and scientific books, and served as an editorial board member of several international scientific journals.

Elastomers are being used widely in many engineering applications. They can be used in extreme conditions such as corrosive environments or at high temperatures, therefore, it is difficult to predict their expected service life. This book reviews the fundamentals of elastomeric materials and their manufacturing techniques with emphasis on their physical and chemical properties. It contains eight chapters focusing on various aspects of elastomers. An introduction of these materials is provided in Chapter 1. In Chapter 2, classification of elastomeric materials is discussed while morphology and compatibility of different elastomeric blends are discussed in Chapter 3. Furthermore, Chapter 4 contains the essentials of mechanical properties of different elastomeric materials and their response under mechanical conditions. In Chapter 5, properties and applications of conductive elastomers are explained. Chapter 6 discusses the mechanical and electrical properties of elastomeric materials and Chapter 7 deals with the applications of elastomers in aerospace and defense sectors. Finally, Chapter 8 discusses the biomedical applications of these materials. This book is greatly beneficial for students, researchers, engineers, teachers, and basically anybody who is interested in elastomers and rubbers or works with these materials.

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## Small Electric Vehicles

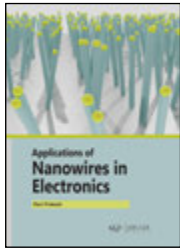
**Mukesh Pandey**

### About the Author

Prof. Dr. Mukesh Pandey is multi-skilled professional with around 30 years of rich exposure and versatile experience in Industries, Administration, Academics, Research domains and institution building. He received his B.E. from SATI Vidisha, M.Tech. from N.I.T. Bhopal and Ph.D. from RGPV, Bhopal. He played an instrumental role in the establishment of Rajiv Gandhi Technical University Bhopal, Madhya Pradesh since its inception in 1999. He served as Rector (Pro Vice Chancellor), Director SoEEM & Dean of Faculty of Energy Technology. He has looked after as Coordinator for establishing IIIT, Bhopal (under PPP Mode by MHRD). He held various administrative positions as Director (R&D), Coordinator of RGPV- NBA Nodal Centre, Dy. Registrar, Member of Engineering Accreditation Evaluation Committee [EAEC] and Moderation Committee of NBA (National Board of Accreditation). Professor Pandey works in the area of Renewable Energy and Environment having focus on Solar Thermal Energy and he has developed an Energy Technology Park at RGPV, Bhopal by making use of the renewable energy resources; Solar Roof Top Plant on University Building, Energy Systems, Solar Thin Film systems, Solar wind Hybrid System, Bio-Diesel Reactor, CO2 Carbon Sequestration Unit, Dual Rotor Wind Turbine etc. Professor Pandey has an iconic track record of quality teaching, innovation and research he has been Principal Investigator of many Govt. Funded Projects by DST, MNRE, MPCST, AICTE etc including Principal Investigator of Innovative & Breakthrough Technology based 30KW CL-CSP SOLAR international R&D PROJECT (India-Japan Joint Venture Project) installed in RGPV campus. He has also facilitated as Reviewer for many national and international journals of repute and associated with many academic and research organizations at various levels. Over the past several years he has taught M.Tech. and Ph.D. Research Scholars in the areas of Energy, Environment, Direct Energy Conversion and Integrated Energy Systems and has been key-note speaker and resource person at several International and National Conferences and programmes.

The needs of different drivers can be accommodated in the plug-in electric vehicles (EVs or electric cars) currently available in the market in a manner similar to the conventional vehicles which had varied kinds of technology available to them. This book takes the readers through various aspects and various types of electric vehicles. This book sheds light on the several characteristics of electric vehicles, battery, flywheels, capacitors, electric fuel, electric vehicle modeling and design considerations. This book has been designed to suit the knowledge and pursuit of the researcher and scholars and to empower them with various aspects, application, future, and trends of electric vehicles, so that they are updated with the information.

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## Applications of Nanowires in Electronics

### About the Author

Prof. Ravi Prakash is working as an assistant Professor in Electronics and Communication Engineering Uma Nath Singh Institute of Engineering and Technology Veer Bahadur Singh Purvanchal University Jaunpur, Uttar Pradesh, India. He was born on January 19, 1975, in Jaunpur, U.P., India. He received the B. Tech. degree in Electronics and Telecommunication Engineering from University of Allahabad, Allahabad, U.P., India in 1997, and M. Tech. degree in Electronics Engineering (Communication Technology) from University of Allahabad, Allahabad, U. P., 2001. He is gold medalist at his graduation level and rank holder in board examination. He has almost 21 years teaching experience at B. Tech., M. Tech. and Ph.D. level in engineering. He had worked as head of department of Electronics Engineering at Veer Bahadur Singh Purvanchal University Jaunpur for almost ten years. He received the Ph.D. degree in Electronics and Communication Engineering from University of Allahabad, U.P., India. His current research interests include Communication Technology. He has published several research articles in reputed international journals related to wireless, optical and digital communication. He has worked as several research and reviewer committee member, and he has excellent work in the field of digital communication, wireless and mobile communication. He had worked as Nodal officer, academic in the Technical Education Quality Improvement Program (TEQIP) supported by World Bank at university level.

One-dimensional semiconducting materials are expected to produce highly-efficient electronic components due to their extraordinary characteristics in applications like nanoscale electronics, biology, optoelectronics, and energy storage. Moreover, complex semiconducting materials have also been developed from nanowires using epitaxial growth mechanisms. The current application areas of nanowires include high-speed transistors, nanoelectronics, chemical- and biosensors, and LEDs (light-emitting diodes) with little power consumption. Concerns for the synthesis of these devices include inferior mobility and optical characteristics of nanomaterials. This book offers a thorough understanding of recent developments in synthesizing nanowires for constructing various types of electronic components. Especially, the book reviews the uses of nanowires in sensors, detectors, energy storage, circuits, and energy conversion, etc. Growth approaches of various types of nanowires are also discoursed along with the discussion of their electronic applications. Therefore, this book can be used as a ready reference by researchers, students, and teachers in the field of nanotechnology and electronics.

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## Scientific Principles of Engineering

### Lokesh Pandey

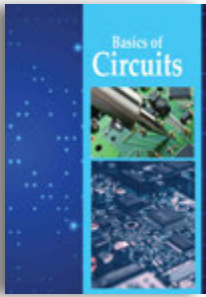
### About the Author

Lokesh Pandey is currently pursuing his PhD in Mechanical Engineering from Uttarakhand Technical University, India, where he also completed his M.Tech in Thermal Engineering. He has more than 3 years teaching experience as a Faculty for Mechanical Engineering. He has published articles in reputed Journals and has also chaired many conferences and workshops.

“The book “Scientific Principles of Engineering” provides a comprehensive introduction to the subject as well as various examples of engineering principles. When we talk about engineering principles, we refer to the ideas, norms, and concepts one must keep in mind to successfully solve an engineering challenge. On the other hand, not much publication is available on engineering principles. This is because the concepts that are applied to find a solution to an issue will frequently be different depending on the kind of difficulty that is faced. This book is ideal for first-year engineering students and their instructors since it allows for an accessible and comprehensive overview of the subject and detailed answers to challenging issues. This book provides an in-depth and credible analysis of the problem and its solutions. All branches of engineering may be traced back to the same core of scientific concepts. To address complex challenges, engineers from different fields may communicate with one another using these universal concepts. The engineering community’s productivity would suffer significantly if its members didn’t adhere to the same core values. This book covers the fundamental scientific concepts and many practical ideas that engineers apply when developing new tools and infrastructure. From the optimal layout of a circuit board to the most cost-effective construction methods, these guidelines offer advice on a wide range of topics based on years of expertise and testing. Engineers may make risk-free and efficient designs if they adhere to these guidelines.

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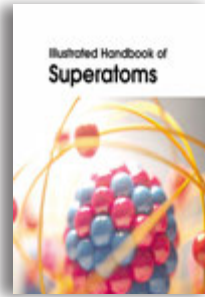
## Engineering and Technology



### Basics of Circuits

- Covers the fundamentals of electrical circuits.
- Provides readers with a solid foundation in circuit theory and analysis.
- With numerous examples, this book is an essential resource for anyone interested in learning about circuits.

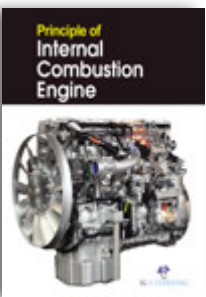
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### Illustrated Handbook of Superatoms

- Presents a molecular understanding of catalysis and catalytically active materials is of fundamental importance in designing new substances for applications in energy and fuels.
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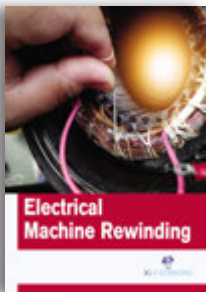
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### Concepts of Semi-Conductors

- Offers an accessible guide to semiconductors using qualitative explanations and analogies, with minimal mathematics and equations.
- This book provides an overview of compound semiconductor materials and their technology.

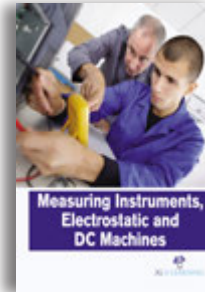
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### Electrical Machine Rewinding

- This book presents the current coil winding methods, their associated technologies and the associated automation techniques.
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### Measuring Instruments, Electrostatic and DC Machines

- The book covers Measuring Instruments, Principle of Permanent Magnet Moving Coil (PMMC), Moving Iron Instruments, Ammeters & Voltmeters, and Operating Principles of the Electrodynamic Instruments.
- This book combines the traditional areas of electric machinery with the latest in modern control and power electronics.

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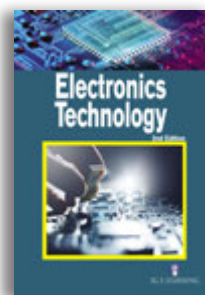


### Electrical Technology (2nd Edition)

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- The book provides a blend of theory and hands-on experience for the electrical construction and industrial maintenance fields.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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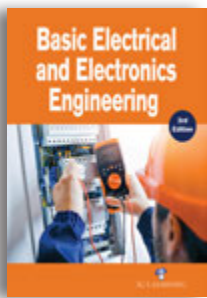
### Electronics Technology (2nd Edition)

- Integrates comprehensive electronic circuit theory with practical work; develop solid troubleshooting skills using modern industry-quality instruments; prepares students to work in the field of electronics.
- This book helps you understand technical vocabulary and technologies while providing the skills necessary to read schematic diagrams, apply problem-solving formulas, and provide useful information on subjects from basic components and building block circuits.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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# Engineering and Technology



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- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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- Focuses on the dissemination of information of permanent interest in engineering applications and engineering technology.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

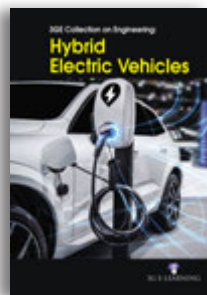
ISBN: 9781984680709 | Price: \$95 | Copyright: 2023 | Binding: Paperback |  
Publisher: 3G E-learning LLC



## 3GE Collection on Engineering: Laser-Based Additive Manufacturing

- This book provides a comprehensive review of the technology and its range of applications.
- Describes the use of computational modeling and simulation to explore and describe the LAM technique, to improve the compositional, phase, and microstructural evolution of the material.

ISBN: 9781984681041 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC



## 3GE Collection on Engineering: Hybrid Electric Vehicles

- Presents coverage of dynamics, charging, battery assembling, designing engines, interior and exterior spacing, etc. of hybrid electric vehicles.
- Includes topics such as novel propulsion systems, emerging power electronics and their control algorithms, emerging electric machines and control techniques, and energy storage systems.

ISBN: 9781984681065 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC

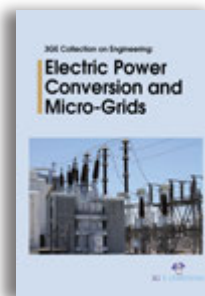


EDITION ②

## Heat and Mass Transfer (2nd Edition)

- The book provides the basics of major heat and mass transfer operations.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Learn about Conduction, Convection, Radiation and Heat exchangers in a most comprehensive and interactive way.

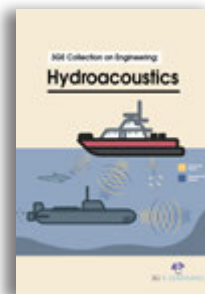
ISBN: 9781984680167 | Price: \$95 | Copyright: 2023 | Binding: Paperback |  
Publisher: 3G E-learning LLC



## 3GE Collection on Engineering: Electric Power Conversion and Micro-Grids

- Offers a comprehensive overview of recent achievements in the field of micro-grids and electric power conversion.
- In addition, the book presents well-founded mathematical analyses on how to technically and economically optimize microgrids via distributed energy resource integration.

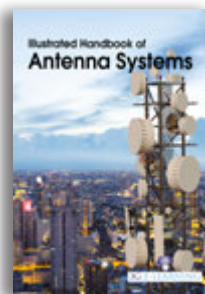
ISBN: 9781984681034 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC



## 3GE Collection on Engineering: Hydroacoustics

- Hydroacoustics is the study of sound in water. Because of the physical properties of the ocean, light waves can only travel a few feet in water before their energy is absorbed.
- The book provides students with an understanding of the physics involved in underwater acoustics, and a sound knowledge of the acoustic technology and methods applied for studying marine biological resources and their habitats.

ISBN: 9781984681058 | Price: \$160 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC

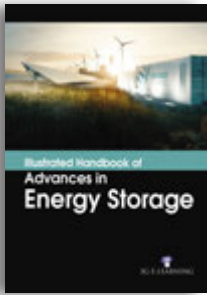


## Illustrated Handbook of Antenna Systems

- This illustrated handbook serves as a one-stop resource for practical EW antenna system know-how.
- The book presents theoretical and experimental approaches to help the reader in understanding the unique design issues and more advanced research.

ISBN: 9781984681188 | Price: \$180 | Copyright: 2023 | Binding: Hardcover |  
Publisher: 3G E-learning LLC

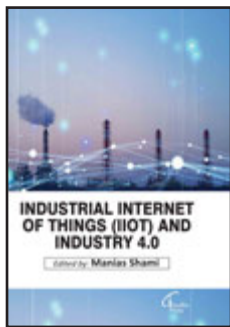




## Illustrated Handbook of Advances in Energy Storage

- This book covers advances in battery technologies and applications for medium and large-scale energy storage.
- This book provides a glimpse of some latest advancements in energy storage technologies, management and control, innovative energy conversion, energy efficiency and system integration.

ISBN: 9781984681195 | Price: \$180 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## Industrial Internet of Things (IIoT) and Industry 4.0

Editor: Manias Shami

The IIoT and Industry 4.0 are revolutionizing the industrial sector by integrating physical machinery, sensors, and data analytics to enable smart manufacturing processes. This connectivity and automation enhance operational efficiency, optimize production, and enable predictive maintenance. However, ensuring the security and integrity of IIoT systems remains a critical challenge to protect against cyber threats and potential disruptions.

This book explores the integration of advanced technologies and digital connectivity in industrial systems to optimize operations and drive innovation.

Print ISBN: 9781682519752 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Applied Machine Learning for Engineering and Technology

Editor: Naoum Chamania

Machine learning techniques have found extensive applications in engineering and technology, enabling predictive analytics, pattern recognition, and autonomous decision-making. From predictive maintenance in manufacturing plants to image recognition in medical diagnostics, applied machine learning is enhancing efficiency, accuracy, and innovation across diverse domains.

This book demonstrates the practical application of machine learning algorithms and techniques in various engineering and technological domains.

Print ISBN: 9781682519776 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Innovations in Structural Engineering and Construction

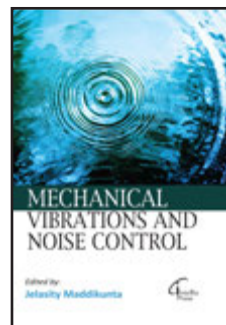
Editor: Ding Kassler

The field of structural engineering and construction has witnessed remarkable innovations, including advanced materials, novel construction techniques, and sophisticated design tools. These advancements have led to the development of more sustainable, resilient, and cost-effective structures that can withstand natural disasters, reduce environmental impact, and improve overall building performance. This book highlights recent

innovations and advancements in the field of structural engineering and construction.

Print ISBN: 9781682519745 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Mechanical Vibrations and Noise Control

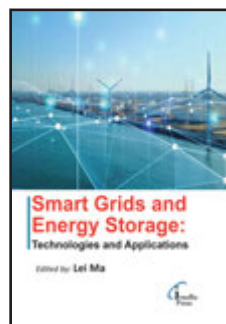
Editor: Jelasity Maddikunta

Understanding and controlling mechanical vibrations and noise are essential for improving the performance, reliability, and comfort of various mechanical systems. Advancements in this field have led to the development of vibration isolation techniques, active noise control methods, and sophisticated modeling and simulation tools, contributing to quieter and more efficient machines and structures. This book examines the principles and techniques used to analyze and mitigate vi-

brations and noise in mechanical systems for improved performance and comfort.

Print ISBN: 9781682519769 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Smart Grids and Energy Storage: Technologies and Applications

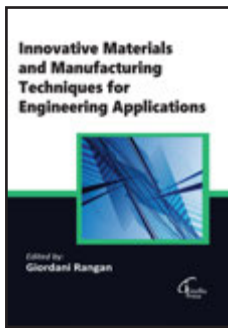
Editor: Lei Ma

Smart grids integrate advanced sensing, communication, and control technologies into traditional power grids, enabling efficient energy distribution, demand management, and renewable energy integration. Additionally, energy storage technologies such as batteries, flywheels, and pumped hydro play a crucial role in enabling grid flexibility, reducing peak demand, and enhancing grid stability, contributing to a more sustainable

and reliable energy infrastructure. This book explores the development and implementation of smart grid systems and energy storage technologies to enhance the efficiency and sustainability of power networks.

Print ISBN: 9781682519783 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



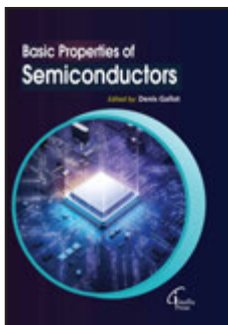
## Innovative Materials and Manufacturing Techniques for Engineering Applications

*Editor: Giordani Rangan*

The development of innovative materials and manufacturing techniques is driving advancements in various industries. From 3D printing and nanotechnology to biomaterials and composite materials, these innovations offer lightweight, durable, and environmentally friendly solutions with improved performance and functionality, revolutionizing sectors like aerospace, automotive, and electronics. This book explores new materials and manufacturing methods that push the boundaries of engineering applications and offer novel solutions.

**Print ISBN: 9781682519790 | \$165 | 2024 | Hardcover |**

**Publisher: Intelliz Press LLC**



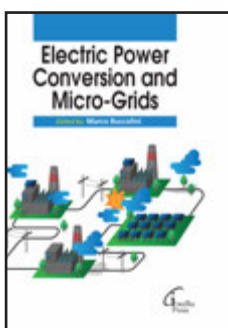
## Basic Properties of Semiconductors

*Editor: Denis Gallot*

Semiconductors are an essential component of electronic devices, enabling advances in communications, computing, healthcare, military systems, transportation, clean energy, and countless other applications. Due to their role in the fabrication of electronic devices, semiconductors are an important part of our lives. Imagine life without electronic devices. There would be no smartphones, radios, TVs, computers, video games, or advanced medical diagnostic equipment. The text covers a wide range of important semiconductor phenomena, from the simple to the advanced. This book presents a detailed description of the basic physics of semiconductors.

**Print ISBN: 9781682519264 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



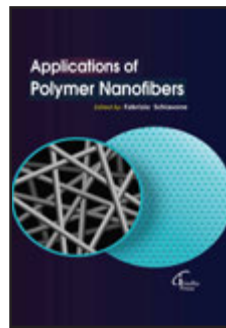
## Electric Power Conversion and Micro-Grids

*Editor: Marco Buccolini*

Nowadays, distributed generation and microgrids (MGs) are becoming an important research line because of their peculiar characteristics. MGs are composed of small power sources which can be renewable, placed near customer sites. Moreover, they have the inherent property of islanding: the disconnection of either the MG from the main grid or a part of a MG from the rest of the MG. The book offers a comprehensive overview of recent achievements in the field of micro-grids and electric power conversion.

**Print ISBN: 9781682519257 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



## Applications of Polymer Nanofibers

*Editor: Fabrizio Schiavone*

Polymer-based nanofibers as an important group of materials have attracted considerable attention of research and industrial areas. Polymer nanofibers with diameters in submicrometer ( $<1 \mu\text{m}$ ) possess unique properties including large specific surface area per unit mass, which facilitated adding functionalities to surface for specific applications. This book intends to highlight the latest achievements in fabricating electrospun nanofibers and describe various ways to modify the surface and structure of scaffolds to promote their functionality. This book also summarizes the application of advanced polymeric nanofibrous scaffolds in the regeneration of human bone, cartilage, vascular tissues, and tendons/ligaments.

**Print ISBN: 9781682519240 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



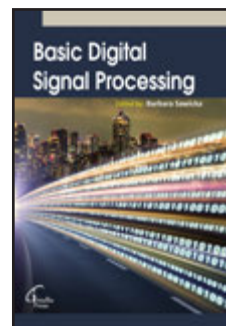
## Drilling Technology

*Editor: Jente Reumers*

Drilling is becoming an increasingly important tool for environmental protection and remediation. Drilling is a relatively noninvasive method for investigating and removing chemical and radioactive wastes from the subsurface, and for placing barriers in the subsurface to halt the spread of contamination. Improvements in drilling technology will improve the efficiency of waste extraction and thereby lower the cost of cleanup efforts. This book presents the theory and technologies of drilling operations.

**Print ISBN: 9781682519288 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



## Basic Digital Signal Processing

*Editor: Barbara Sawicka*

The primary key to success for any business in today's well-connected world is quick, easy, reliable, and secure communication and information exchange. The biggest contributor to this progress is the digital storage of data and easy and reliable transmission of data from place to place. Digital Signal Processing is the key and its knowledge is becoming very important in comprehending the quality and reliability that it delivers. Written with student-centred, the text provides a self-contained introduction to the theory of digital signal processing.

**Print ISBN: 9781682519271 | \$165 | 2023 | Hardcover |**

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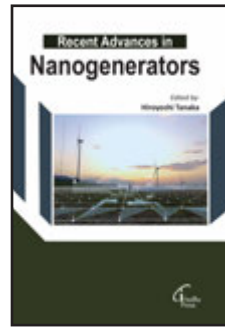
### Emerging Trends in Mechatronics

*Editor: Patrizia Rogolino*

Several new technologies have emerged, allowing designers to revolutionize their approach. Some ideas were impossible to implement a decade ago, but with the advent of these new technologies these ideas have been revised, and mechatronic design methods are considered. As mechatronic systems get more complex, the challenges associated with successfully executing them also become more demanding. The purpose of this book is to help better understand how mechatronics will impact the practice and research of developing advanced techniques to model, control, and optimize complex systems.

**Print ISBN: 9781682519295 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Recent Advances in Nanogenerators

*Editor: Hiroyoshi Tanaka*

Nanoenergy is a field of studying the small-scale, highly efficient energy harvesting, storage, and applications by using nanomaterials and nanodevices. Converting nano-energies in our surroundings is essential to meet the challenges that we are facing in the Internet-of-things era. As a result, various types of nanogenerators have been developed to scavenge energies that are produced in the surrounding environment. This book introduces an innovative and high-efficiency technology for mechanical energy harvesting. The book provides an introduction to nanogenerators, which are the newest technological advancement in the field of energy conversion.

**Print ISBN: 9781682519325 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Quantum Blockchain

*Editor: Luke B. Herman*

Blockchain technology has taken the world by storm in recent years as a way to anonymously record transactions between individuals. As safe is it is currently, it's only a matter of time before somebody finds a way to tap into those coded messages. Quantum computing is the area of study focused on developing computer technology based on the principles of quantum theory. This book is an introduction to quantum cryptography for engineering researchers and students in the realm of information security. This book states that blockchain technology provides a secure distributed, peer-to-peer, and decentralized network with advanced cryptography primitives and protocols.

**Print ISBN: 9781682519318 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Laser-Based Additive Manufacturing

*Editor: Dominika Skiba*

Additive manufacturing (AM) is a transformative technology that has rapidly grown over the past decade. Laser additive manufacturing (LAM) realizes a multitude of customized medical applications, such as prosthetics or implants. Today, a wide range of biocompatible materials is available for LAM, and yet further processes for metals, plastics or ceramics are under development. This book introduces laser-based additive manufacturing methods and review the types of lasers widely used in 3D printing machines.

**Print ISBN: 9781682519301 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**



### Nanotechnology in Intelligent Food Packaging

*Editor: Jialin Mao*

Nanotechnology used in the synthesis of nanoparticles has attracted great interest in the field of food packaging. It promises the development of food packages with upgraded properties that helps in prolonging the shelf life of food products. Additionally, nanotechnology has been explored for controlled release of preservatives/antimicrobials, extending the product shelf life within the package. The promising reports for nanotechnology interventions in food packaging have established this as an independent priority research area. This book presents the existing knowledge, recent advances, concerns and future applications of nanotechnology in food packaging sector.

**Print ISBN: 9781682519332 | \$165 | 2023 | Hardcover |**

**Publisher: Intelliz Press LLC**

# Food Science & Nutrition



## Innovative Food Science and Emerging Technologies

- Includes many new trends and developments in food science, including preparation, characterization, morphology, properties, and recyclability.
- Presents a modern perspective on the development of robust, effective and sensitive techniques to ensure safety, quality and traceability of foods to meet industry standards.

ISBN: 9781984679307 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## 3GE Collection on Food Science: Bioprocessing Technology in Food and Health

- The book explores and exploits the synergy and boundary between biotechnology, bioprocessing and food engineering.
- This book focuses on recent findings, new research trends, and emerging technologies in bioprocessing, making use of microorganisms in the production of food for health and nutritional benefits.

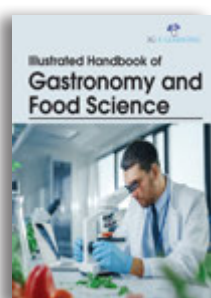
ISBN: 9781984681072 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## 3GE Collection on Food Science: Starch in Food

- The book looks at starch as an ingredient and how it is used in the food industry. The book covers various aspects of starch, including physicochemical, nutritional and functional properties, plus applications in addition to foods.
- The book covers the links between biosynthesis, structure and the environmental impact on processing and nutrition.

ISBN: 9781984681096 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## Illustrated Handbook of Gastronomy and Food Science

- Understanding the Flavor of Foods and Beverages presents a new comprehensive and unifying theory on flavor, which answers ancient questions and offers new opportunities for solving food-related issues. Encompasses the science and practice of molecular gastronomy in the most accessible and up-to-date reference available.

ISBN: 9781984681157 | Price: \$180 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## Food Technology (4th Edition) (with Access Code)

- This fully revised edition is designed to match the specification of the subject and is designed to reinforce exactly what the students need to know.
- Describes new technologies used in food production such as gene technology, farming technology and robots, nanotech, packaging, and discusses the implications of using these technologies.
- Some new chapters covering current topics are also added in this revised edition.

EDITION ④

ISBN: 9781984679772 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## 3GE Collection on Food Science: Colour in Food

- This book focuses on the preparation, structure, chemistry, functional properties, stability, handling and applications of naturally-derived colorants approved for use in food products.
- This book reviews how color is perceived and measured, discusses food color chemistry and stability, and presents ways that color can be better controlled in food.

ISBN: 9781984681089 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## 3GE Collection on Food Science: Advances in Dairy Ingredients

- This book offers a comprehensive and practical account of the various dairy ingredients commonly used in food processing operations.
- The goal of this book is to present some new approaches on dairy processing.

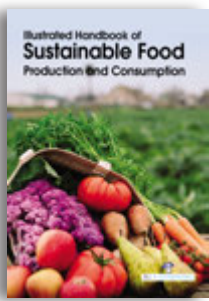
ISBN: 9781984681102 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



## Illustrated Handbook of Functional Properties of Food Components

- During post-harvest storage and processing, these components change and the extent and nature of change depends on the chemical properties of the compounds themselves.
- This book provides an overview of the composition, structure, and functionality of key food components and their effects on food product quality.

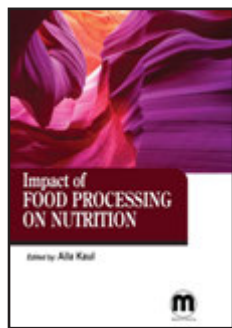
ISBN: 9781984681164 | Price: \$180 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### Illustrated Handbook of Sustainable Food Production and Consumption

- This book covers production stage activities to reduce postharvest losses and increase use of by-products streams (waste), food manufacturing and beyond, presenting insights to ensure energy, water and other resources.
- This book provides a comprehensive overview of both economic sustainability and the environmental concerns that relate to food processing.

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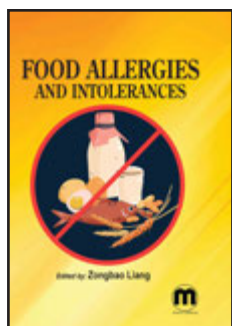
### Impact of food Processing on Nutrition

Editor: Aila Kaul

Food processing techniques can significantly influence the nutritional composition of food. While processing can enhance shelf life and improve food safety, it can also result in the loss of essential nutrients and the addition of unhealthy additives. Understanding the impact of various processing methods is crucial in maintaining a nutritious diet and making informed food choices. This book explores the impacts of processing methods such as cooking, freezing, and canning on the vitamins, minerals, and overall nutritional composition of food, offering valuable insights into maintaining a nutritious diet in the modern food industry.

Print ISBN: 9781682508886 | \$165 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



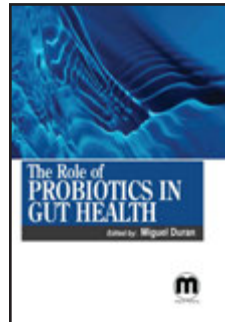
### Food Allergies and Intolerances

Editor: Zongbao Liang

Food allergies and intolerances can have a significant impact on an individual's health and well-being, often requiring careful dietary management and avoidance of specific allergens or intolerant substances to prevent adverse reactions and promote overall health. This book sheds light on the complex topic of food allergies and intolerances. It provides a comprehensive overview of common allergens and the physiological mechanisms behind allergic reactions. The book also explores diagnostic methods, treatment options, and strategies for managing food-related allergies and intolerances in various settings.

Print ISBN: 9781682508909 | \$165 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



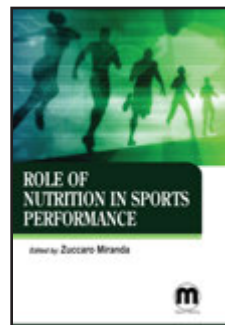
### The Role of Probiotics in Gut Health

Editor: Miguel Duran

Probiotics are beneficial bacteria that can support a healthy gut microbiome and improve digestive health. By promoting a balanced gut flora, probiotics can enhance nutrient absorption, strengthen the immune system, and alleviate digestive disorders, emphasizing the significance of maintaining a diverse and thriving microbial community in our intestines. This book explores the relationship between probiotics and the well-being of the gastrointestinal system. The book also highlights the benefits of probiotics in promoting a healthy gut microbiome, improving digestion, and boosting overall health. It provides a scientific understanding of probiotics and their potential impact on gut health.

Print ISBN: 9781682508879 | \$165 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



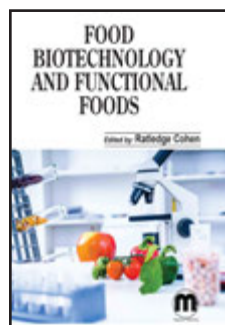
### Role of nutrition in sports performance

Editor: Zuccaro Miranda

Proper nutrition plays a crucial role in enhancing sports performance by providing the necessary fuel for energy, supporting muscle growth and repair, optimizing hydration levels, and aiding in recovery after intense physical activity. This book explores the crucial role of nutrition in optimizing sports performance. It deals with the science behind how different nutrients impact athletic abilities and provides practical guidelines for athletes to enhance their diet. The book emphasizes the importance of proper fueling and hydration strategies to improve endurance, strength, and recovery. Additionally, it discusses the specific nutritional needs for different sports and offers insights into supplementation and meal planning.

Print ISBN: 9781682508893 | \$165 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



### Food Biotechnology and Functional Foods

Editor: Ratledge Cohen

Food biotechnology involves the use of scientific techniques to improve the nutritional content, safety, and quality of food products. Functional foods, which are enriched with bioactive compounds, offer potential health benefits beyond basic nutrition, contributing to disease prevention and overall wellness. Exploring the fascinating field of food biotechnology, this book covers the intersection of science and food production. It examines the innovative methods and technologies used in developing functional foods, which offer specific health benefits beyond basic nutrition. The book discusses genetic engineering, fermentation, and other biotechnological approaches that enhance food quality, nutritional content, and bioactive properties. It also addresses the potential implications and controversies surrounding these advancements.

Print ISBN: 9781682508916 | \$165 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



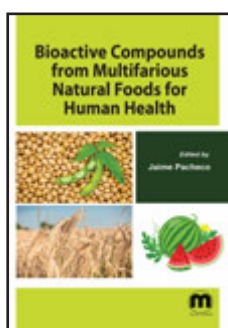
## Bioprocessing Technology in Food and Health

Editor: Nancy Getchell

Bioprocess Technology dedicated for the developments in biotechnology and its applications in agro/food, functional food, biopolymers, dairy and meat science, cosmetics and pharmaceuticals. Industrial bioprocess technology for the conversion of raw agricultural products to useful food products, biomaterials with specific growth promoting properties are developed for application in organic farming. This volume focuses on recent findings, new research trends, and emerging technologies in bioprocessing.

Print ISBN: 9781682508244 | \$165 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Bioactive Compounds from Multifarious Natural Foods for Human Health

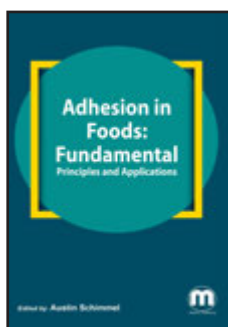
Editor: Jaime Pacheco

Natural products such as complex carbohydrates, proteins and specialty lipids as well as minor bioactive compounds play a vital role in human wellness and in food quality. These include various physiological and biological activities based on their specific chemical structures. Modified natural products also play several powerful bioactive functions and some have been used as food additives to improve food taste and sensory qualities.

This book sheds light on the potential of natural and plant-based foods for human health from different technological phases.

Print ISBN: 9781682508268 | \$165 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Adhesion in Foods: Fundamental Principles and Applications

Editor: Austin Schimmel

Adhesion, the physical phenomenon by which two materials are sticking together, is of primary importance in numerous industries. Regarding the food industry, adhesion of food to packaging surfaces may result in product loss, poor product appearance, and increasing package recycling costs. This book reviews the various theories of adhesion mechanism and, more specifically, studies concerning foodstuffs adhesion to industrial equipment and packaging surfaces.

Print ISBN: 9781682508282 | \$165 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



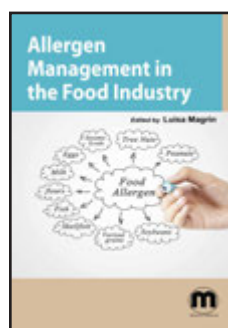
## Microbial Safety of Food and Food Products

Editor: Xiaotong Zhou

Microbial Food Safety is an essential public health issue of all countries and technology, food-borne illness is a rising cause of morbidity in all countries and the list of potential food borne microbial pathogens keeps increasing. Most foodborne outbreaks in recent years have been linked to microbial contamination of food products. These food outbreaks can cause considerable food losses, and hence can play a role in global food insecurity. This book intends to discuss the importance of microbial food safety in the supply chain to reduce the potential for contamination.

Print ISBN: 9781682508251 | \$165 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Allergen Management in the Food Industry

Editor: Luisa Magrin

Food and beverage manufacturers have a responsibility to identify allergens that are contained in their products and take action to isolate them. Allergen management embodies the procedures, policies and practices contributing to the control of allergens within a food business. It should be considered as a component of existing food safety management plans and processes, such as GMP controls. This book covers allergen management throughout the supply chain including at primary production, during manufacturing, and at retail and food service endpoints.

Print ISBN: 9781682508275 | \$165 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Functional Dairy Ingredients and Nutraceuticals

Editor: Sitong Chen

The commercial developments in dairy functional foods and ingredients were discussed. The functional foods provide the consumer with an identified health benefit over and above basic nutritional value. With the knowledge advancement in human physiology and nutrition the market for these products would grow. The book provides a comprehensive insight into the therapeutic aspects of dairy ingredients. It also highlights the technological aspects of milk-derived products. The book explores the specific health benefits of dairy ingredients in nutraceuticals and functional foods as well as delves into production techniques.

Print ISBN: 9781682508336 | \$165 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Advances in Dairy Ingredients

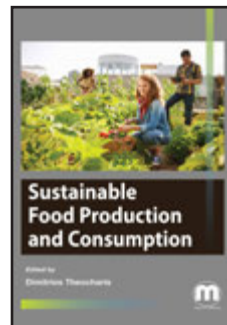
*Editor: Karolina Balik*

Consumer interest in food products has gradually shifted from a request for sensory satisfying products to a demand for foods that are both nutritionally valuable for human health and environmentally sustainable. In this regard, milk and dairy products have been subjected to many controversies. Nonetheless, nowadays, the benefits of dairy foods to human health have been recognized worldwide, and sustainable dairy production and consumption are expected to grow steadily over the coming years, especially in developing countries.

This book provides a global perspective on recent developments in the area of dairy ingredients and dairy products.

**Print ISBN: 9781682508299 | \$165 | 2023 | Hardcover |**

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## Sustainable Food Production and Consumption

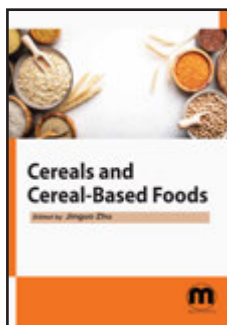
*Editor: Dimitrios Theocharis*

Worldwide consumption and production — a driving force of the global economy — rest on the use of the natural environment and resources in a way that continues to have destructive impacts on the planet. Economic and social progress over the last century has been accompanied by environmental degradation that is endangering the very systems on which our future development — indeed, our very survival — depends. This book diagnoses of the challenges and problems facing the current food system to provide for a growing world population while also ensuring the sustainability of the environment.

This book provides a global perspective on recent developments in the area of dairy ingredients and dairy products.

**Print ISBN: 9781682508305 | \$165 | 2023 | Hardcover |**

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## Cereals and Cereal-Based Foods

*Editor: Jinguo Zhu*

Cereal-based foods are the major staples around the world. These foods are mostly made from a variety of grains including wheat, maize, oats, rice, rye, barley, millet, quinoa, and sorghum, with rice, maize, and wheat comprising two-thirds of human food consumption. With advancements in cereal science and technology, new methods of processing have emerged that help to preserve or even enhance the health-benefitting properties of cereal grains. This volume addresses functional and health aspects of cereal grains and flours and technological advances of the cereal industry as a sector that needs to operate under the principles of sustainability and circular economy.

This book provides a global perspective on recent developments in the area of dairy ingredients and dairy products.

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## Non-Thermal Food Preservation

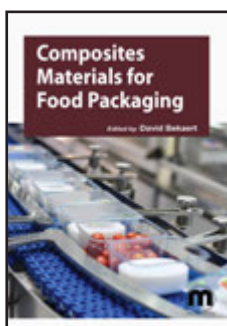
*Editor: A. S. Cohen*

Food is subjected to various thermal treatments during processes to enhance its shelf-life. But these thermal treatments may result in deterioration of the nutritional and sensory qualities of food. With the change in the lifestyle of people around the globe, their food needs have changed as well. Today's consumer demand is for clean and safe food without compromising the nutritional and sensory qualities of food. This comprehensive book will definitely help food scientists and technologists working in the field of non-thermal technology since non-thermal treatment is gaining interest due to its numerous merits over thermal techniques.

This book provides a global perspective on recent developments in the area of dairy ingredients and dairy products.

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## Composites Materials for Food Packaging

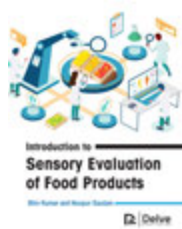
*Editor: David Bekaert*

Nowadays, there are dominant scientific breakthroughs to advance the packaging industry to identify innovative and emerging fruitful results for making the food packaging systems, in particular, more efficient, resilient, and sustainable. Therefore, friendliness packaging research has been gaining momentum, and leading companies are committing to a more holistic worldview of packaging in response to more sustainable processes to reduce pollution and any depletion of resources. This book explores a review of relative topics

across all disciplines that could accelerate understanding toward this goal. It walks through conventional materials, and then important natural and synthetic polymers from the context of food packaging.

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## Introduction to Sensory Evaluation of food Products

**Shiv Kumar and Noopur Gautam**

Food sensory testing includes the application of human senses in the scientific assessment of food products. Qualities like texture, odor, scent, and taste are examined by trained testers to evaluate product quality or obtain opportunities for development. The test people of a board should satisfy certain prerequisites as food testers: availability, neutral conduct towards the tested product, scientific language competence, no sensitivities or intolerances to test foods, and healthy senses. This volume presents off-flavor as an unwanted taste, smell, or mouthfeel. This can emerge during storage or handling and frequently causes a decline in the sensory nature of food or drink. Off-flavor happens when dangerous compounds pollute a food because of chemical alterations or adulteration during storage or production or through the development of microbes in a product. For effective sensory testing, sample choosing, preparation, balance, coding, and presentation are crucial to offering an objective assessment. The differences between samples should be negligible; for example, all testers must obtain similar samples for appraisal.

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### About the Authors

*Prof. Shiv Kumar is Mtech. and PhD in Food Technology from GB Pant University and Bundelkhand University. He is presently working as Head of Department on the position of Professor for the past 10 years. He has 26 years of experience in teaching and research. He has held many Administrative and Academic positions in Bundelkhand University as Registrar, Finance officer, Dean Science, Dean Engineering and Pro-Vice Chancellor of the University. He has authored 4 books and 15 research papers in various National and International Journals, many research articles and reviewed research papers for reputed International Journals. He was also awarded best teacher by Governor of UP, India in 2001. Recently, he is coordinating and handling many research projects in Food Technology.*

*Dr. Noopur Gautam has done B.Sc in ZBC from Kurushetra University, M.Sc Food Technology from Guru Jambheshwar University, Hisar and PhD in Food Technology from Bundelkhand University. She is presently working as Assistant Professor in Institute of Food Technology, Bundelkhand University, Jhansi (UP). She has wide experience in the field of Food Industry having worked with Food quality Lab and multinational company for more than five years. She is a trained auditor in Quality Management Systems especially HACCP and ISO. Dr. Noopur Guatam is guiding M.Sc and PhD students and has many research publications to her credit. She is also on Elsevier's panel as an expert referee with outstanding contributions in reviewing research papers in Food Technology area. There is an amalgam of research and its application commercially in her approach which reflects in her work.*



## Introduction to Nutrigenomics

**Bhupendra Pushkar**

Until recent times, the nutritional study was solely about the deficiencies of nutrients and impairment of health. However, with the advent of genomics, nutrigenomics has gained unprecedented attention where the high throughput genomics techniques are combined with nutritional studies. With increasing health concerns, especially lifestyle related diseases, it is very important to focus on the individual nutritional requirement. Where, nutrigenomics bridges health, diet and genomics and can also be seen as a combination of nutrients at genetic and molecular level. The bioactive compounds present in the diet influence the expression of the gene in tissue and organ in a specific manner. Nutrigenomics can provide information on nutritional influence on metabolism and homeostasis which upon disruption can cause diet related diseases. Further, the possibility of individual sensitive genotypes towards the disease can also be predicted. Nutrigenomics can offer effective dietary-intervention strategies to maintain homeostasis and control diseases. With the advancement of science, especially the Human Genome Project (HGP), the interaction of different genes and nutrients can be studied in depth. Government interventions and regulations can further help to enhance the benefit of the nutrigenomics analysis. This book focuses on nutrigenomics with respect to disease control and current opportunities and challenges.

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### About the Editor

*Dr. Bhupendra Pushkar was born in Mumbai, India. He persuaded his B.Sc. in Microbiology in 2000. He has obtained his M.Sc. degree in Biotechnology in 2002 from University of Mumbai. He pursued his further studies and completed his Doctorate degree in 2010. His area of research broadly includes environmental pollution remediation using biological science. He is currently working on heavy metal bioremediation, PAH bioremediation, plastic degradation, plant tissue culture etc. He is actively involved in the bioremediation research work and trying to develop system for river water cleaning. Since 2008 he is working as assistant professor at University of Mumbai, India. He has published various papers in national as well as international journals and currently guiding three research students. He is Co-Editor in Chief of a journal and reviewer in many journals.*



## The Development of New Food Products

**Reema**

This book seeks to evaluate the opinions of new product development (NPD) researchers and their partners. These incorporate the people who have advanced their theories with specific reference to the food sector and the creation of new food items. This book distinguishes various theories and methods for dealing with new product development. The book offers the structure to understanding and valuing the complexity of food development projects. Additionally, various tools for progress in working separately or in groups to make or develop food items and product offerings are discussed in this book. This book likewise offers challenges and prospects for educators, in capstone as well as in different courses. Since product development is by itself an expansive and interdisciplinary undertaking, the author calls upon readers by introducing data and details on the New Product Development process. Readers, students, and researchers will acquire knowledge on the fundamentals of food chemistry, sensory analysis, statistics and food processing through this book. This book will be ideal for food researchers, food engineers, and regulatory professionals working on the development of new food products.

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### About the Editor

*Dr. (Mrs.) Reema is presently working as Guest Faculty, Department of Home Science, Government Degree College, Katra Chuggupur, Sultanpur, Uttar Pradesh. She graduated from the Deen Dayal Upadhyay Gorakhpur University and completed doctorate from Nehru Gram Bharti Deemed to be University, Prayagraj in the year 2020 with UGC NET, JRF &SRF. She has published four research papers in elite national publications and participated many national & International conferences.*





## Various Types of Fats, their Uses, and Risks

**Papita H Gourkhede**

Fat is essential for several body functions. Fat is an important part of the diet of humans and many other animals. It is an energy and protects the skeleton and nerves. Fats also make it possible for other nutrients to do their jobs. The body stores fat for protection, warmth, and energy. Not all fats are equally beneficial. Dietary fats are a significant part of our everyday diet, providing around 20-35% of our day-to-day energy needs. Apart from energy, they are fundamental for various biological functions such as growth and development. A small amount of fat is an essential part of a healthy, balanced diet. Fat is a source of essential fatty acids, which the body cannot make itself. This volume examines what dietary fats consist of, their location, sub-atomic structure, molecular, properties, and how to develop taste, texture, and food appearance. The volume likewise discusses the elements of fats in the body and examines the use of dry fats impact on human health. Fats help the body absorb vitamin A, vitamin D and Vitamin E. These vitamins are fat soluble which means they can only be absorbed with the help of fats. Any fat that's not used by your body cells of turned into energy is converted into body fat, likewise unused carbohydrates and proteins are also converted into body fat. Lipids are a wide range of n existing particles that consist of fats, sterols, waxes, and, fat-solvent vitamins A, D, E, and K, phospholipids, diglycerides, and monoglycerides, among others. Lipids consist of structural units with high hydrophobicity. This relevancy characteristic, instead of a typical structural component, monoglycerides this group of compounds. They mix with solvents but repel water. Fats and oils can be derived from animal sources (tallow, milk fat, lard), vegetables (vegetable oils, cocoa butter), and marine (cod liver oil, whale oil). They play a significant part in nutrition and physiological roles as they are a decent energy source (9 kcal/g) and contain essential soluble fats and fat-soluble vitamins in nature (comprising of hydrophobic and hydrophilic classes) with surface-active elements. In general, fats improve the nutritional capacity and add feel and texture. All types are high in energy. A gram of fat whether it is saturated or unsaturated provides 9 kcal (37 KJ) of energy compared with 4 kcal (17KJ) for carbohydrates and proteins. This book discusses food-technology processes and issues related to food reformulation. This book will be helpful for the students, researchers, clinicians, nutritionists and dieticians and professionals working on dietary supplements and food technology.

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### About the Editor

Dr.(Mrs). Papita H Gourkhede (1977) is presently serving as Assistant Professor, Department of Soil Science and Agriculture Chemistry, college of Agriculture, Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani. She obtained her B. Sc.(Ag.) in 2001 from College of Agriculture, Nagpur from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola. Pursued M. Sc. (Ag.) in 2007 and Ph. D. in Soil Science And Agriculture Chemistry in 2012 from Vasantao Naik Marathwada Krishi Vidhyapeeth, Parbhani. She started her career as Assistant professor in 2012. Her field of specialization is soil fertility, nutrient management, micronutrients, heavy metal remediation, Remote Sensing and Organic Farming. She has published 05 books and 35 research paper in National and international journals of reputed. She has participated in many National, State Seminar and symposiums. She has written 06 practical manuals for under graduate course for the benefit of students besides this delivered several Radio talk, Lectures in farmer training programme. Dr. Papita has also written 112 popular articles in Agroone, Shetibhati, RCFsheti patrika and other reputed Magazines. She has received young Scientists award in 2016, ICAR national Award for research innovation in Dryland Agriculture in 2018, women Scientists Award in 2019, Agrocure Award in 2017, State level Best program officer award in 2020.



## Key Elements of Food safety and Food Processing

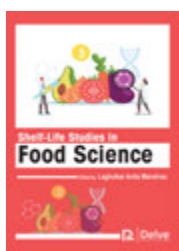
**Reema**

Food safety is critical in order to safeguard customers from common allergies and foodborne diseases. Food poisoning is among the most widely recognized reasons for sickness around the world. This volume seeks to educate readers on food safety and gives balanced arguments on pesticides, and genome modification among other elements influencing food safety. Billions of individuals on the planet are in danger of unsafe food. A large number become sick while others die from eating unsafe food. Thusly, safe food saves lives. Safe food enriches the individual and population health. Safe food further creates economic development of the location where sanitation is improved. Safe food supply relies upon both science and effective food policing. With technological improvements, new guidelines should be ratified to create a regular supply of food items that are protected and fit for consumption. As living standards improve, worries over food safety and possible impurities will continue being a significant medical concern. Consumers request quality and safe products they eat since food provides the necessary energy and nutrients for supporting life. Largely, consumers depend on the government to protect food items and guarantee sold foods meet minimum consumer safety standards. For instance, a container of olive oil named as 100 percent virgin olive oil should contain the very thing the name says aside from the naturally occurring minor components that are essential for the olive oil to last, and which can't be removed or disposed of totally without affecting the olive oil. The volume examines challenges and strategies in food safety and handling across different countries worldwide.

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### About the Editor

Dr. (Mrs.) Reema is presently working as Guest Faculty, Department of Home Science, Government Degree College, Katra Chuggapur, Sultanpur, Uttar Pradesh. She graduate from the Deen Dayal Upadhyay Gorakhpur University and completed doctorate from Nehru Gram Bharti Deemed to be University, Prayagraj in the year 2020 with UGC NET, JRF &SRF. She has published four research paper in elite national publications and participated many national & International conferences.



## Shelf-life Studies in Food Science

**Laghulkar Anita Marotirao**

Shelf-life of food is the period during which the food retains an acceptable quality from a safety and organoleptic point of view, and depends on four main factor, namely formulation, processing, packaging and storage condition of food. It is indicated by labeling with a date mark like Expiry date, best-before and best-before date.

The factors influenced the shelf-life of product is intrinsic and extrinsic factor which are moisture content, pH, redox potential, water activity, temperature, and atmospheric gases. To enhance the shelf-life of the food different preservation and processing methods used like irradiation, blanching, freezing, and some applications of heat as well as used vacuum packaging, active and intelligence packaging. Shelf -life is affected by microbial, physical, and chemical spoilage like enzymatic reactions, oxidation of fat, bacterial spoilage to reduce these type of spoilage FSMS-Food Safety Management Safety, HACCP, TQM are applied. Shelf life of food determines by sensory analysis, chemical, and microbiological tests should be carried out. According to regulation of Food Safety Standard Authority of India (FSSAI) shelf life indicated on labeling of product in the form of expiry date for perishable food like milk product, best -before the food contains less water content.

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### About the Editor

Miss Anita Laghulkar is presently serving as Assistant professor, Department of Food Chemistry and Nutrition, College of Food Technology Naigaon ( Bz) Nanded, Maharashtra affiliated by Vasantao Naik Marathwada Krishi Vidyapeeth, Parbhani. She obtained her B.Tech ( Food Technology) in 2016 from College of Food Technology Naigaon & M.Tech (Food process Technology) in 2018 from Maharashtra Institute of Technology Aurangabad, Maharashtra. She started her career as Assistant professor in 2018. Her M.Tech specialization in reduction of acrylamide compound from processed Food. She has published 2 research paper in international journal. She has participated in many National and international symposiums and state seminar.



### Probiotics for Sustainable Food and Medicine

Laghulkar Anita Marotirao

Probiotics are a combination of live beneficial micro-organism i.e. bacteria and yeast that are intended to have health benefits when consumed or applied to the body. Probiotics have become more popular in the past two decades, the most common fermented foods that naturally contain probiotics, or have probiotic added to them, include Yogurt, Kefir, Kombucha, Sauerkraut, Pickles, Miso, Temph, Kimchi, Sourdough bread, and some cheeses. Probiotic bacteria are Lactobacillus, Bifidobacterium, Streptococcus Thermophilus, Bulgaricus, Propionobacterim etc., after dissecting and examining the various significant strains that may be incorporated in probiotic supplements, it becomes obvious why they are valuable for maintaining your overall health. They give a lot of added health advantages. Prebiotics are beneficial components of probiotic supplements that support and promote health in almost all body systems. With the application of various products, more scientific evidence shows that probiotics are beneficial to human health, and the food industry is very active in researching and promoting them. Given this continuing trend, although there is strong scientific evidence linking these microbes to different health benefits, more research is required to identify them and evaluate their safety and nutritional aspects. The goal of this book is to assess the current literature on the concept and potential beneficial elements of probiotics in the literature, with a focus on probiotics in food and medicine.

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#### About the Editor

Miss Anita Laghulkar is presently serving as Assistant professor, Department of Food Chemistry and Nutrition, College of Food Technology Naigaon (Bz) Nanded, Maharashtra affiliated by Vasantao Naik Marathwada Krishi Vidyapith, Parbhani. She obtained her B.Tech ( Food Technology) in 2016 from College of Food Technology Naigaon & M.Tech (Food process Technology) in 2018 from Maharashtra Institute of Technology Aurangabad, Maharashtra. She started her career as Assistant professor in 2018. Her M.Tech specialization in reduction of acrylamide compound from processed Food. She has published 2 research paper in international journal. She has participated in many National and international symposiums and state seminar.



### Incorporating Natural Products into the Human Diet

Laghulkar Anita Marotirao

This book sums up existing evidence on the effect of natural food on human health. Proper nutrition is essential for human life, health and development. It examines organic versus traditional food production in regards to human health and examines the possible effect of natural management activities universally. Essential nutrients like Carbohydrates, fats and oils, protein, vitamins, minerals, and water are all part of the diet. Carbohydrates and proteins provide energy of 4 kcal per gram and fats provide energy of 9 kcal per gram. Minerals are required for many body activities, including muscular contraction, nerve transmission, blood coagulation, and blood pressure and growth regulation. Except for sulfur, sodium, potassium, magnesium, and calcium exist as positive ions or captions, and chloride and phosphates as negative ions or anions, throughout the body. Mineral salts aid in the regulation of fluid, osmotic pressure, and acid-base balance in physiological fluids. Nutrients and some non-nutrient found in meals are required for development and physiological functioning, according to advances in nutritional and food sciences. Many foods that derive from an animal source, such as eggs, milk, meat, fish, honey, yogurt, and cheese, are considered animal source foods. Organic dairy items, and some meats, additionally have a higher ratio of omega-3 fatty acids contrasted with traditional food products. This book will be useful for dieticians, nutritionists, and clinicians. This book will be more helpful for general readers and makes them aware of choices of natural foods, their nutrition quotient and improvising their health.

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#### About the Editor

Miss Anita Laghulkar is presently serving as Assistant professor, Department of Food Chemistry and Nutrition, College of Food Technology Naigaon ( Bz) Nanded, Maharashtra affiliated by Vasantao Naik Marathwada Krishi Vidyapith, Parbhani. She obtained her B.Tech ( Food Technology) in 2016 from College of Food Technology Naigaon & M.Tech (Food process Technology) in 2018 from Maharashtra Institute of Technology Aurangabad, Maharashtra. She started her career as Assistant professor in 2018. Her M.Tech specialization in reduction of acrylamide compound from processed Food. She has published 2 research paper in international journal. She has participated in many National and international symposiums and state seminar.



## Medicines from the Seas

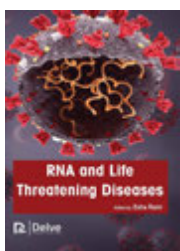
**Shivsanjeevi Sripathi and Prerna Pandey**

Man has always been on a quest for answers and the search for molecules suitable to target ailments or their causes such as pathogens has intensified with the COVID-19 epidemic. The marine environment is home to 32 of the 33 animal phyla that are recognized with 15 types exclusively only marine! This diversity in genetics opens up the avenue for chemical diversity setting the stage for novel drugs. This book is the first to describe the promise of marine organisms as a treasure chest of molecules to target a slew of diseases. This is inclusive of what has been presented by research in terms of quelling symptoms of diabetes, CVD and rheumatoid arthritis-that are all chronic conditions still on the quest for a "perfect cure".

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**About the Authors**

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, worked at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of geminiviruses, genome sequencing, gene annotation, and gene silencing using the RNA interference technology. She has also worked at Transasia Biomedicals and Advance Enzyme Technologies as a scientist. Prerna has published papers in peer-reviewed journals, and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. She has also completed her editing and proofreading courses from Society for the promotion of Editors and Proofreaders, UK and now works as a freelance scientific editor and writer. When Prerna is not busy with her assignments, she loves to explore historical places.



## RNA and Life Threatening Diseases

**Esha Rami**

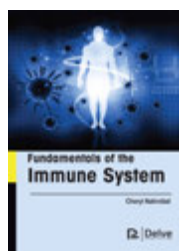
A huge number of messenger RNAs (mRNAs) and non-coding RNAs must be accurately expressed for cells to function normally. These RNAs take a role in transcription, RNA processing, and translation. An in-depth examination of RNA-mediated genome regulation at several levels has been provided in the book RNA-based Regulation in Human Health and Disease. Starting with

the Introduction of RNA, RNA as a therapeutic target, a further section examines the various diseases and significant potential for RNA-based medicines and diagnostics in the future. The book helps researchers, students and clinicians across the world who will find this book very informative as well as practical.

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### About the Editor

Dr. Esha Rami is presently working as an Assistant Professor, in the Department of Life science, Parul Institute of Applied Science, Parul University, India. She Did her Post graduated from Ganpat University, Ph.D. in biotechnology from Hemchandracharya North Gujarat University, in the year 2015. She has authored a number of national and international publications in reputed journals.



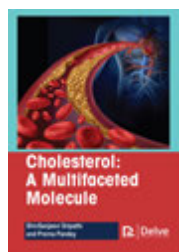
## Fundamentals of the Immune System

**Cheryl Natividad**

Certain aspects of the immune system are still under intense investigation and so some information presented in this book are possibilities supported by experimental data and not yet established facts. This book aims to orient the reader about the various parts of the human immune system and how they work together to protect the body from pathogens. This book provides well-researched information that can help readers attain a better comprehension of the body's amazing ability to protect and heal itself.

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**About the Author**

Cheryl Agdaca- Natividad graduated with a BS Biology degree (magna cum laude) at the Saint Louis University, Baguio City in the Philippines. She took the licensure examination for secondary teachers in 2003 where she ranked no. 10 among the examinees. She earned her masters degree in Genetics at the premier state university, University of the Philippines Los Baños. She taught in the same university from 2006-2017 handling lecture and laboratory classes in general biology, cell biology, genetics, and molecular genetics. She authored books on various fields of genetics such as veterinary genetics, plant genetics, and epigenetics.



## Cholesterol-a Multifaceted Molecule

**Shivsanjeevi Sripathi and Prerna Pandey**

Whether it is a newspaper article or an internet "trend" or countless advertisements on social media-one molecule that most people know is "cholesterol". Given this background, this book is the first of the series on cholesterol. After a brief introduction of the key aspects of its synthesis and processing, research studies have been presented discussing the global cholesterol profiles, the roles of genes, as well as links between COVID-19 and cholesterol.

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### About the Authors

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.

Dr Prerna Pandey, a biotechnologist with several years of wet lab research experience, worked at International Center for Genetic Engineering and Biotechnology, New Delhi. Her field of research in PhD included isolation and molecular characterization of geminiviruses, genome sequencing, gene annotation, and gene silencing using the RNA interference technology. She has also worked at Transasia Biomedicals and Advance Enzyme Technologies as a scientist. Prerna has published papers in peer-reviewed journals, and has submitted a number of annotated Geminiviral genome sequences in the GenBank, including two novel ones. She has also completed her editing and proofreading courses from Society for the promotion of Editors and Proofreaders, UK and now works as a freelance scientific editor and writer. When Prerna is not busy with her assignments, she loves to explore historical places.



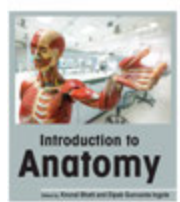
## Allergies-concerns and Insights

**ShivSanjeevi Sripathi**

This book presents interesting insights into allergic diseases. Apart from discussing its prevalence around the world, a range of indoor allergens has also been covered as backed by research. This includes carpets as potential sinks of allergens and pet fur along with practical tips for handling them. An interesting research finding on the role of “personality” and food allergy has also been covered. This becomes vital in today’s times when “personality development” is at the forefront. The impact of mental health on allergies and vice versa has also been presented.

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**About the Author**

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET’s V.C.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, : Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



## Introduction to Anatomy

**Krunal Bhatt and Dipak Guvanta Ingole**

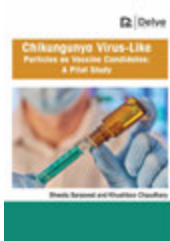
Anatomy is a branch of biology that is concerned with the identification and description of living organisms’ internal structures. It comes from the Greek words ana and tomia, which mean up and cutting, respectively, and denotes cutting up or dissection when combined. The present book describes the historical aspects of anatomy, Anatomy of humans, Veterinary Anatomy and plants.

This book also covered technological adoption in anatomy education. Use of virtual lab, three-Dimensional Digital Simulations, cloud technology, and Artificial intelligence in Anatomy education has also been covered. This book will be helpful for students, researchers and scholars to understand the complexity of anatomical structures of humans, animals and plants.

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**About the Editors**

Dr Krunal Bhatt ( 1982 ) is presently working at Zydus hospital, Vadodara as a chief clinical intensivist and Anaesthesiologist for one year. He did his MBBS from Baroda Medical College. He has worked as a Medical Officer at various corporate hospitals in Vadodara (2006-2009). He joined Indian armed forces and posted to various locations during his tenure (2009-2018). He has served at Pune, Lucknow, Jodhpur, Jammu and Kashmir. He also has obtained Counter Insurgency ops medal and High Altitude serving medals for his serving tenure at line of control in Kashmir. He did his post-graduation in Anaesthesiology from AFMC, Pune, India in 2018. He is life member of Indian Medical Association, Indian Society of Anesthesiology, Indian Society of Critical Care Medicine, and European Society of Anaesthesia.

Dr. Dipak Ingole (1989) is presently serving as Assistant Professor, Department of Genetics and Plant Breeding, CSMSS, College of Agriculture, Kanchanwadi, Aurangabad (MH). He obtained his B. Sc. (Ag.) in 2011 from Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, M. Sc. (Ag.) in 2011 and Ph. D. in Genetics and Plant Breeding in 2017 from Vasant Rao Naik Marathwada Krishi Vidhyapeeth, Parbhani. He started his career as Assistant professor in 2017. He has published 02 books and 11 research paper in National and international reputed journals. He has participated in many National, State level Seminars and symposiums. He has delivered several Radio talks, Lectures in farmer training programme. Dr. Dipak has also written 35 popular articles in reputed Magazines. He has also received Young scientist award in 2022.



## Chikungunya Virus-Like Particles as Vaccine Candidates: A Pilot Study

**Shweta Saraswat and Khushboo Chaudhary**

Chikungunya Virus VLP (Virus-Like Particle) is a unique product that has been developed in response to the need for high purity, properly assembled and glycosylated Chikungunya virus antigens for use in the development of Chikungunya virus diagnostics and in vaccine development and R&D. This book presents main emphasis continues to be the Chikungunya virus for virology inter-

ests, although they have been described in specific cases where more is known about the mechanism of Chikungunya virus replication. The chapters have been organized in such a way that they provide sequential knowledge. Chikungunya virus (CHIKV) has now emerged as one of the most important arbovirus of public health significance. Infection of CHIKV in humans is characterized by rash, high fever and severe arthritis that may persist for years.

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**About the Authors**

Dr. Shweta Saraswat is currently working as an Assistant Professor at the Amity Institute of Virology and Immunology (AIVI), Amity University, Uttar Pradesh, Noida, India. Dr. Saraswat has 3 years of teaching experience and more than 10 years of research experience. She is a graduate and has a master’s in microbiology from Jiwaji University, Gwalior. Dr. Saraswat completed her doctorate in Biological Sciences (Virology) from Bharathiar University, Coimbatore. Her research area was the development of Chikungunya Virus-Like particles using *Picha pastoris*. She worked in various renowned organizations in India. She worked at the Defence Research and Development Establishment (DRDE), Gwalior as a research fellow. Here, her area of expertise was the development of diagnostics and prophylactics against Chikungunya, Dengue, and Swine flu viruses. She was a postdoctoral fellow at Shiv Nadar University, Gautam Buddha Nagar. Her work was mainly focused on the “Mapping of cleavage site of HEV ORF1 expressed using the Baculovirus expression system”. After that, she worked as a scientist at the Translational Health Science and Technology Institute (THSTI), Faridabad, to isolate various DENV isolates using clinical samples. She also identified some small molecule inhibitors against DENV as well as other flaviviruses. At the National Institute of Immunology, her focus was to develop neutralization assays for different JEV isolates. She has been awarded by various reputed agencies. She has received DST-NPDF and DHR-young scientist national awards. She also got an international travel grant from the International Conference on Antiviral Research (ICAR). She also submitted many DENV gene sequences to NCBI Pubmed. Dr. Saraswat has published several research papers in international journals. She is the author and co-author of so many international journals. She is also a review editor for *Frontiers in Cellular and Infection Microbiology*.

Dr. Khushboo Chaudhary is presently working as a Senior Research Associate at THSTI, Faridabad, Haryana and has nine years of research experience. She graduated from Dr. M.P.S College, Agra in 2010, completed post-graduation from R.B.S College, Agra (Dr. Bhim Rao Ambedkar University) in 2012 and Ph.D. in Biotechnology from Banasthali Vidyapith Tonk Rajasthan in 2019. She has published several research papers in international and national journals. She has published six international textbooks. She has received seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International Conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in *J. Virological Methods*.



## Building Digital Health Competencies in Developing Countries

Sara D. Garduño-Díaz and Friedrich Huth

In the context of this book, digital health competency refers to “the use of information and communications technology in support of health and health-related fields” (WHO, 2019). The concept of digital health may appear overwhelming upon first glance. Numerous health care services as well as providers employ classic paper-based systems for information, and taking up technology is not within the possibilities and expertise of several health systems. Initiating with digital health, nevertheless, is similar to implementing any novel program, often with more questions than answers. To begin, especially for practitioners with limited or no background with technology, comes “What can digital health really do?” The correct answers may not always be technology, yet if it is, an abundance of informed decisions must be taken. Various of these decisions center around trade-offs, and even though no “right” answer really exists, some options have greater context-relevance and are more feasible than others when considering developing countries. Taking up a participatory angle to developing the envisioned digital tool with end users is paramount. Empowering health care professionals to try out a concept or model a situation with the potential digital health tool to potentially outphase their current systems can shine light on key insights. It is then possible to fine tune top ideas into even better answers with the added perspective of those who will be affected.

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### About the Author

Sara D. Garduño-Díaz has a background in nutrition with a PhD in Nutrition and Food Science from the University of Leeds, United Kingdom; she has further specialized in Sports Nutrition with the International Olympics Committee, Switzerland. Dr Garduño-Díaz has worked as Research Fellow for several EU-funded research projects and was awarded research grants from CONACYT (Mexico) and the BBSRC (UK). She currently consults for various startups in Europe and the US in the areas of Nutrition and Product Development.

Dr Garduño-Díaz sits on the editorial board of various international journals, including the Journal of Obesity and Weight Management, E Cronicon Nutrition, Research in Health Science, and Insights in Nutrition and Dietetics. She is the author of over 50 peer-reviewed publications and 10 books. Her research interests include the dietary patterns of migrant populations and their impact on health, as well as investigating the environmental factors that influence food selection.

Dr. Garduño-Díaz is a member of the Academy of Nutrition and Dietetics, the American Overseas Dietetics Association, Professionals in Nutrition for Exercise & Sport, and the World Public Health Nutrition Association, for whom she is a member of the executive committee.

With over 15 years of experience in the field of nutrition, and having lived and worked in various continents, Dr Garduño-Díaz's approach to food is one of integrating strategies to design individual programs based on her client's wellness needs. Dr Garduño-Díaz advocates for real food and the art of eating.

Friedrich Huth has a background in Business Economics with a Master's Degree in Business Administration from the University of Brandenburg, Germany. He further specialized in Corporate Finance at the Institute of International Studies at the Ramkhamhaeng University in Bangkok. When an arthrosis diagnosis ended his career as a professional Athlete and Captain of the German Youth Basketball National Team at an early age, he dedicated his life to helping a variety of small and medium sized companies grow their business as Operations, Marketing and Finance Manager while personally exploring measures to cure his joint-condition and regain his physical abilities. Thus, he started working on functional nutrition in 2017 when he became a first line member of Her1, an Ecommerce startup for Nutritional Supplements. Currently he is responsible for a unit of consultants with focus on German Companies in the Agriculture, Life Science, Pharmaceutical & Chemical Industries. Due to his professional environment he is exposed to first line insights on the practices and strategies of the main players in related fields to modern food production. His approach to digital health is based on his personal nutrition-induced full recovery from a condition that was progressed to be irreversible, mixed with over 6 years of professional experience in economic fields.



## Introduction to Kinesiology

Ravi Pandya

For survival of living species movement is necessary. However, mobility might be hampered for a variety of reasons, including injury or discomfort. Normal movement is the consequence of a complex interplay between the neurological, muscular, and skeletal systems, as well as other systems such as the respiratory, cardiovascular, integumentary, and immunological systems. Kinesiology is the basic science for understanding the movement system. It is the scientific study of movement of the human body or its components. A solid basis in kinesiology is required for the restoration of normal movement, the decrease of movement dysfunction, and the optimization of movement. This book (Introduction to Kinesiology) is divided into eight chapters. First chapter introduces the readers with fundamentals of Kinesiology. Chapter 2 explain the Kinesiology of shoulder complex. Chapter 3 thoroughly discusses the Kinesiology of Elbow units. Chapter 4 introduces the readers with the Kinesiology of Hand. Chapter 5 focusses on Kinesiology of Gait. Chapter 6 illustrates the phenomena of Kinesiology in neck and trunk. Chapter 7 describes the Kinesiology in Hip Joints modern applications of proteomics in various fields. Finally, chapter 8 focuses on the Kinesiology of Ankle Joint and Foot recent. The book gives a good understanding of the many aspects of Kinesiology. The work succeeds in delivering material in a way that familiarizes the unfamiliar reader with essential Kinesiology ideas and methods. Students in medical and other interdisciplinary disciplines will benefit from an introduction to kinesiology. This literature can be used not only by a physician or a health worker but also used by a layman who wants to go for helping hands to others.

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### About the Editor

Dr. Ravi Pandya has completed his graduation in 2018 from Gujarat Ayurved University Jamnagar in 2014 & Post Graduation from Parul University in 2018. He has academic experience of 2.9 years and current working in Parul Institute of Ayurved, Parul University, Vadodara, Gujarat, as deputy medical superintendent and assistant professor in Department of Kriyashari.



## Aging: Snow White's Secrets

ShivSanjeevi Sripathi

We all are familiar with the idea of wine and cheese tasting better with “age”. The quest for being young dates back to the pages of history and stories we have heard for a long time. While aging is a universal truth, further understanding of its inner aspects. Aging is associated with changes warranting special care. This book presents a few interesting research insights into aging and approaches to handling it. Starting off with the background, the impact of miRNAs in aging is also presented followed by the roles of gut bacteria and the diet.

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### About the Editor

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, “Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smeigmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



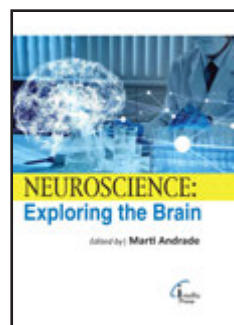
## Vaccines: What's Happening

**Editor: ShivSanjeevi Sripathi**

Pandemics have not been recent. Apart from the Spanish flu and the recent COVID-19 pandemic, the ability of pathogens to target humanity is a repeated pattern over time. For instance, what was first reported in late 2019 and brought the globe to a standstill in 2020, COVID-19 is firmly etched in the minds of the survivors. Research has always pointed out vaccines as being the cornerstone approach to quelling epidemics and pandemics: along the lines of the adage “better safe than sorry”. This book comes at this crucial juncture when our conquest of land and overpopulation is resulting in waves of epidemics. The book starts with groundwork entailing the impact of vaccines, their production and costs and also discusses the ethical aspects of vaccine research and also vaccines for “neglected diseases”.

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**About the Editor**

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled, “Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane” following which he worked at Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular vires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



## Neuroscience: Exploring the Brain

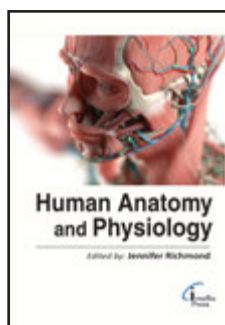
**Editor: Marti Andrade**

Neuroscience is a multidisciplinary field that explores the structure, function, and development of the nervous system. It investigates the intricate network of neurons, neural circuits, and brain regions responsible for cognitive functions, sensory perception, motor control, and behavior. Neuroscientists employ various techniques, including brain imaging, electrophysiology, and molecular biology, to unravel the complexities of the brain and gain insights into neurological disorders. This

book explores the intricacies of the brain and nervous system, examining their structure, functions, and the mechanisms underlying perception, cognition, and behavior.

Print ISBN: 9781682519820 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Human Anatomy and Physiology

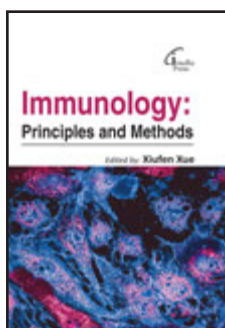
**Editor: Jennifer Richmond**

Human anatomy is the study of the structure and organization of the human body, including various systems such as the skeletal, muscular, and circulatory systems. Physiology, on the other hand, focuses on the functions and mechanisms that allow the body to operate and maintain homeostasis. Understanding the intricate relationship between anatomy and physiology is crucial for comprehending how the human body works and responds to different stimuli. This book provides a comprehensive

understanding of the structure and function of the human body, including its organs, systems, and physiological processes.

Print ISBN: 9781682519806 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Immunology: Principles and Methods

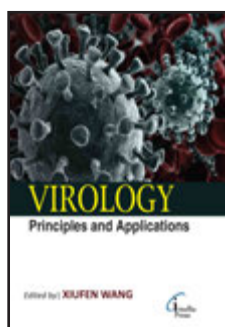
**Editor: Xiufen Xue**

Immunology is a branch of biomedical science that investigates the immune system and its response to foreign substances, infections, and diseases. It encompasses the study of immune cells, antibodies, cytokines, and various immune processes. Immunologists aim to understand how the immune system protects the body from harmful pathogens and develops therapies to combat immunological disorders. This book introduces the fundamental principles and experimental methods used in the

study of the immune system and its response to pathogens.

Print ISBN: 9781682519813 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Virology: Principles and Applications

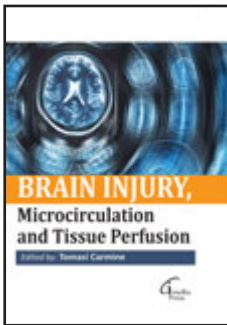
**Editor: Xiufen Wang**

Virology is the scientific study of viruses, microscopic infectious agents that can cause a wide range of diseases in humans, animals, and plants. Virologists examine the structure, replication, evolution, and interaction of viruses with their host organisms. Understanding virology is essential for developing vaccines, antiviral drugs, and diagnostic methods to prevent and control viral infections. This book examines the principles of virology, including the structure, replication, and transmission

of viruses, and their impact on human health and biotechnological applications.

Print ISBN: 9781682519837 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



**Brain Injury, Microcirculation and Tissue Perfusion**

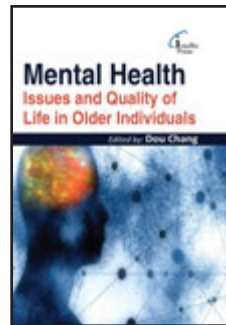
*Editor: Tomasi Carmine*

This book focuses on studying the impact of brain injuries, such as traumatic brain injury or stroke, on the microcirculation and tissue perfusion in the brain. Researchers investigate the mechanisms underlying vascular changes, blood flow regulation, and tissue damage associated with these injuries. Understanding these processes is crucial for developing effective interventions and treatments to minimize brain injury and promote recovery. This

book explores the effects of brain injury on microcirculation and tissue perfusion, examining the mechanisms involved and potential therapeutic strategies.

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**Publisher: Intelliz Press LLC**



**Mental Health Issues and Quality of Life in Older Individuals**

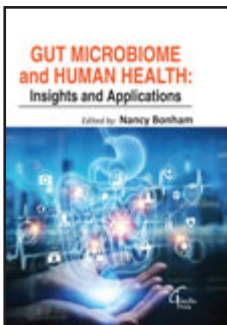
*Editor: Dou Chang*

This book examines mental health disorders and their impact on the quality of life in older individuals. It explores the prevalence, causes, and treatments of conditions such as depression, anxiety, dementia, and cognitive decline. Researchers aim to develop strategies for early detection, intervention, and improving mental well-being in the elderly population. This book investigates the mental health challenges faced by older individuals and

explores strategies to enhance their quality of life and well-being.

**Print ISBN: 9781682519851 | \$165 | 2024 | Hardcover |**

**Publisher: Intelliz Press LLC**



**Gut Microbiome and Human Health: Insights and Applications**

*Editor: Nancy Bonham*

The gut microbiome refers to the diverse community of microorganisms residing in the human digestive tract. Research in this field investigates the relationship between the gut microbiome and various aspects of human health, including digestion, nutrient absorption, immune function, and disease susceptibility. Understanding the gut microbiome's role may lead to novel therapies targeting microbial imbalances to improve overall health and prevent certain disorders. This book explores the complex interactions between the gut microbiome and human health, including its influence on digestion, immunity, and disease development.

immunity, and disease development.

**Print ISBN: 9781682519868 | \$165 | 2024 | Hardcover |**

**Publisher: Intelliz Press LLC**

## Hospitality and Tourism



### Event Planning: Food Fests

- A comprehensive guidebook for organizing successful food festivals.
- It covers everything from selecting a venue, recruiting vendors, creating menus, and marketing the event.
- With practical tips and insights, this book is a must-read for anyone interested in the exciting world of food event planning.

ISBN: 9781984685391 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Event Planning: Weddings

- A comprehensive guide for anyone interested in planning weddings.
- From the initial stages of brainstorming ideas to the final touches on the big day, this book covers everything needed to create a memorable and successful wedding event.
- With practical advice and illustration, this book is a must-read for aspiring wedding planners and engaged couples alike.

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### Event Planning: House Warming

- A comprehensive guide for those looking to plan a memorable housewarming party.
- Covers everything from invitations and decorations to menu planning and entertainment ideas.
- With practical tips and creative inspiration, this book is a must-have for anyone hosting a housewarming celebration.

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### Cake Decorating Techniques

- A comprehensive guide for both beginners and professionals in the art of cake decoration.
- Provides step-by-step instructions on how to create stunning designs using various techniques, including piping, fondant, and sugarcraft.
- With beautiful photography and detailed explanations, this book is a must-have for anyone interested in the world of cake decorating.

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### Event Planning: Wine and Whisky

- A comprehensive guide to planning and hosting events that feature these popular beverages.
- From selecting the right wine and whisky to creating the perfect atmosphere, this book covers it all.
- With tips, tricks, and insider knowledge, it's a must-read for anyone interested in event planning or the world of wine and whisky.

ISBN: 9781984685407 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Event Planning: Birthday

- Provides practical insights into organizing successful birthday events.
- Covers a wide range of topics, from conceptualizing and planning events to executing them flawlessly.
- A valuable resource for anyone involved in event management.

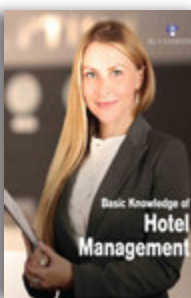
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### Event Planning: Music Fests

- A comprehensive guide for planning successful music festivals.
- Covers everything from choosing the right location to booking talent and creating a memorable experience for attendees.
- With practical tips and real-world examples, this book is a must-read for anyone interested in event planning or the music industry.

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### Basic Knowledge of Hotel Management

- A comprehensive guide for aspiring hotel managers.
- Covers the fundamental principles of hotel operations, including guest services, food and beverage management, marketing, and finance.
- An essential resource for anyone looking to build a career in the hospitality industry.

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## Hospitality and Tourism



### Basic Knowledge of Bartending

- A comprehensive guide for aspiring bartenders.
- Covers all the essential topics, including bar tools, spirits, and cocktail recipes.
- Designed in a concise and easy-to-understand style, making it a perfect resource for beginners.

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### Basic Knowledge of Room Service

- A helpful guide for those working in the hospitality industry.
- It covers the fundamentals of providing quality service to hotel guests, including setting up and delivering orders, managing inventory, and handling customer complaints.
- This book is a must-read for anyone interested in excelling in room service.

ISBN: 9781984685483 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Basic Knowledge of Restaurant Service

- A comprehensive guide for anyone interested in the hospitality industry.
- Covers topics such as customer service, food and beverage service, and restaurant management.
- This book is a valuable resource for enhancing your skills and knowledge in the field.

ISBN: 9781984685490 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Basic Knowledge of Housekeeping

- A comprehensive guide to maintaining a clean and organized home.
- The book covers topics such as cleaning tools and techniques, laundry care, and home organization.
- This book is a valuable resource for keeping your home in tip-top shape.

ISBN: 9781984685506 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Basic Knowledge of Front Office Management

- A comprehensive guide to the hospitality industry's front office operations.
- Includes various topics, including guest services, communication skills, revenue management, and much more.
- This book provides valuable insights to enhance your knowledge and skills.

ISBN: 9781984685537 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



### Basic Knowledge of Travel Agency Management

- A comprehensive guide for anyone looking to start or manage a travel agency.
- The book includes topics such as marketing strategies, financial management, customer service, and industry regulations.
- With practical tips and cases, this book is a valuable resource for anyone in the travel industry.

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### 3G Handy Guide: Banquet Service Procedures (with Access Code) (2nd Edition)

- Food and beverage managers direct the food services of hotels. They oversee the operation of hotels' restaurants, cocktail lounges, and banquet facilities.
- This handy guide is fully illustrated delivering the steps, skills, and troubleshooting techniques learners will need to.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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### 3G Handy Guide: Travel Agency Management (with Access Code) (2nd Edition)

- An entry-level handy guide for travel agency management, this work covers selling techniques, reservation procedures, marketing and selling ideas.
- This handy guide provides step-by-step designs on setting up a travel agency, making bookings, finding and keeping customers, and maximizing income.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## Hospitality and Tourism



### Hygiene, Safety and First Aid in Hospitality (with Access Code)

- Explores topics such as the significance of food hygiene, quality and safety in the hospitality industry.
- This book provides insights into common food safety breaches along the food chain in the hospitality industry.

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### Hotel Engineering and Maintenance (with Access Code)

- The hotel engineer keeps up with the wear and tear that guests put on the facilities of a hotel. His job is to ensure a safe, quality hotel experience that improves guest satisfaction.
- Emphasize the importance of maintenance department in hotel industry and types of hotels.

ISBN: 9781984679086 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Customer Care, Service & Hospitality Ethics (with Access Code)

- This book discusses specifically what employees in service business should and should not do when interacting with customers.
- This text now includes updates to all statistics, information on job design and empowerment, updated coverage of trade unionism and a new chapter on business ethics.

ISBN: 9781984679147 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Resorts: Management and Operation (with Access Code)

- This book is designed for students intending to pursue a career in the hotel and resort industry for supervisory and management roles.
- Students will be able to demonstrate the ability to design, implement, and evaluate services that facilitate targeted human experiences and that embrace personal and cultural dimensions of diversity.

ISBN: 9781984679321 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Tourism Development Policy and Planning

- This text explores the role of tourism as a potential contributor to socio-economic development in destination areas.
- The aim of this book is to focus on tourism planning as a process and set of techniques for sustainable tourism development.

ISBN: 9781984679079 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Introduction to Hospitality Operations (with Access Code)

- From restaurants to resorts, the hospitality industry demands strong operations management to delight guests, develop employees, and deliver financial returns.
- The book offers a comprehensive treatment of the entire hospitality industry, thoroughly updated to reflect the latest trends in the Hospitality.

ISBN: 9781984679130 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Festival and Special Event Management (with Access Code)

- This book is a comprehensive overview of the theory and procedures associated with managing festivals and special events.
- Students are introduced to the planning and management of special events and festivals.

ISBN: 9781984679314 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Startup Guide: Restaurant (2nd Edition) (with Access Code)

- Master the essentials needed to start a restaurant. Students will learn the legal, ethical, and structural aspects of forming and running a restaurant business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

EDITION ②

ISBN: 9781984679345 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

## Hospitality and Tourism



### Startup Guide: Bakery (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running a Bakery business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

EDITION ②

ISBN: 9781984679352 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Startup Guide: Food Truck (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running a Food Truck Business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

EDITION ②

ISBN: 9781984679376 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

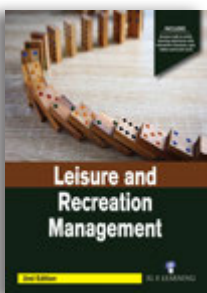


### Startup Guide: Event Planning (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running an Event Planning Business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

EDITION ②

ISBN: 9781984679413 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

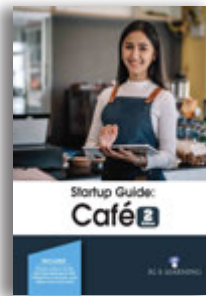


### Leisure and Recreation Management (2nd Edition) (with Access Code)

- Equip students with exposure to reading, interpreting, critiquing, and presenting data from relevant studies.
- The topics coverage includes leisure history, key leisure concepts, trends, provision, management practices, and operational issues.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984679543 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Startup Guide: Café (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running a Café business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

EDITION ②

ISBN: 9781984679369 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Startup Guide: Bar and Club (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running a Bar and Club Business.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.
- Outlines basics of problem identification, innovation, idea formation & brainstorming, idea validation, risk assessment, business plan creation, financial planning, startup accounting, sales, fundraising, marketing, launching, crowd funding, and managing a startup.

EDITION ②

ISBN: 9781984679383 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Food and Wine Tourism (2nd Edition) (with Access Code)

- Food and wine tourism is a rapidly growing sector of tourism, which reflects changing lifestyles and increasing diversification within the tourism industry.
- Equip readers with the development of food and wine tourism enterprises, food and wine tourism marketing, and trends and opportunities.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984679536 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Managing Hospitality Human Resources (2nd Edition) (with Access Code)

- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.
- Provides the basic functions of the human resource manager in hospitality and travel organizations.
- Covers the establishment and use of effective training, and performance evaluating measures to improve productivity.

EDITION ②

ISBN: 9781984679550 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

## Hospitality and Tourism



EDITION ②

### Marketing and Managing Tourism Destinations (2nd Edition) (with Access Code)

- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.
- Offers a comprehensive understanding of the concept and scope of the tourism industry in general and of destination marketing and management in particular.
- Contains management and marketing theories with the aim to evaluate complex business problems and formulate strategies for small and medium tourism companies and tourism destinations.

ISBN: 9781984679567 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

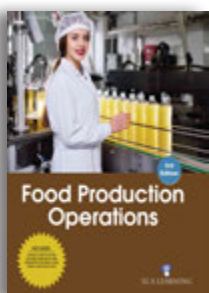


EDITION ②

### Applied Business Tools and Technology in Tourism (2nd Edition) (with Access Code)

- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.
- This book examines the process of transformation as it relates to the tourism industry, and the changes to that industry from modern tools and techniques.
- Over the past sixty years, the tourism sector has grown to become a pillar of the global economy, driven by political cooperation, social change and far - reaching advances in technology; both in communications and infrastructure.

ISBN: 9781984679581 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



EDITION ③

### Food Production Operations (3rd Edition) (with Access Code)

- This fully revised edition discusses basic menu planning, and principles and methods of cooking.
- With concise explanations and detailed illustrations, this edition includes extensive revisions of the material on all aspects of food production, including basics of all kitchens, modern kitchen equipment, layout and basic cuts.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

ISBN: 9781984679796 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



EDITION ②

### A Visual Reference for Sous Chef (2nd Edition)

- The sous chef is essentially the “right hand man” of the head chef. Aspiring sous chefs can start their careers as food preparation workers or entry-level cooks in restaurants and work their way up with experience.
- This visual reference covers prime management skills and the ability to control the kitchen before, during, and after every service.

ISBN: 9781984680358 | Price: \$85 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



EDITION ③

### Tourism, Transport and Travel Management (3rd Edition) (with Access Code)

- This book is a cohesive and comprehensive look at this multi-million dollar industry sector from a variety of perspectives relevant to the teaching of tourism.
- Covering all aspects of management of travel and tourism industry, this book looks at the core disciplines and the application of theory to practice.
- In its updated third edition, this book has been extensively revised on a chapter by chapter basis.

ISBN: 9781984679574 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

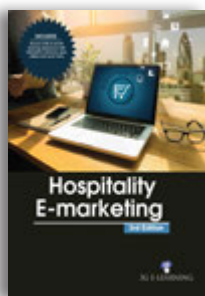


EDITION ④

### Hotel Operations Reports, Calculations, and Bookkeeping (4th Edition) (with Access Code)

- This fully revised edition covers a solid grip of accounting fundamentals that will empower to swiftly acquire, understand, and apply the accounting policies and procedures in the hospitality operations.
- Some new chapters covering current topics are also added in this revised edition.
- Provides important accounting principles and methods of calculations, and provide the knowledge and skills that every hospitality manager will need.

ISBN: 9781984679789 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



EDITION ③

### Hospitality E-marketing (3rd Edition) (with Access Code)

- This fully revised edition shows how to apply the principles of marketing within the hospitality industry.
- Covers e-marketing strategies for all types of hospitality businesses.
- With concise explanations and detailed illustrations, this edition includes extensive revisions of the material on the impact that the internet has had on both marketing and hospitality.
- Some new chapters covering current topics are also added in this revised edition.

ISBN: 9781984679802 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



EDITION ③

### The Advanced Art of Baking (3rd Edition) (with Access Code)

- Gives professional and home bakers peerless up-to-date coverage of the theory and practice of baking.
- With concise explanations and detailed illustrations, this edition includes extensive revisions of the material on the basic equipment and techniques and information on how to troubleshoot common baking problems.
- Some new chapters covering current topics are also added in this revised edition.

ISBN: 9781984679819 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## The Bar and Beverage Handbook (3rd Edition) (with Access Code)

- This fully revised edition describes the latest developments and new complexities of managing modern bars.
- Gives numerous examples and case studies from within the bar and beverage industry.
- Explores many critical techniques to help maximize the potential for any club and bar.
- Some new chapters covering current topics are also added in this revised edition.

EDITION ③

ISBN: 9781984679826 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

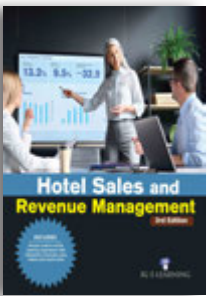


## Supervision in the Hospitality Industry (3rd Edition) (with Access Code)

- This fully revised edition provides a basic understanding of a leader's role and responsibilities applied to the hospitality industry.
- Considers the viewpoints of all levels of associates to create an informed picture of management and supervision in the hospitality industry.
- Focuses on the different roles of employees from beginning leaders in hospitality industry.
- Some new chapters covering current topics are also added in this revised edition.

EDITION ②

ISBN: 9781984679833 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Hotel Sales and Revenue Management (3rd Edition) (with Access Code)

- Provides concise ideas to start a revenue management culture in all departments.
- Fully updated throughout, includes revised matter on revenue management from the lodging, foodservice, and integrated perspectives.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ③

ISBN: 9781984679840 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

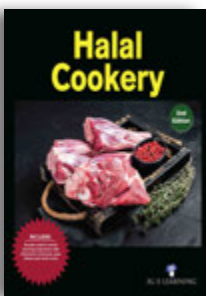


## Tourism Product Development (2nd Edition) (with Access Code)

- This book is to provide specific knowledge about the process and analysis of physical designing of tourism products based on local and international designing.
- Provides the tools and strategies necessary to successfully develop tourism products and experiences.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984680112 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Halal Cookery (2nd Edition) (with Access Code)

- This book covers the best halal practices for manufacturers within the food industry.
- Delivers a wealth of information about Halal food guidelines for food production, domestic and international food markets, and Halal certification.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

ISBN: 9781984680129 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## A Visual Reference to Housekeeping (2nd Edition)

- This visual guide provides information on good housekeeping techniques which can be used as a tool for systematic approach for productivity, quality and safety improvement in all types of business.
- Equips readers with complex information quickly and clearly in a concise manner.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ②

ISBN: 9781984680259 | Price: \$85 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## A Visual Reference to Front Office Management (2nd Edition)

- Front office staff needs to use different skills on technologies too, such as using the printers, fax machines and phone.
- Provides essential skills and to help busy working administration professionals to develop their administration skills and hence their progression options within business.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ②

ISBN: 9781984680266 | Price: \$85 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## A Visual Reference to Room Service Management (2nd Edition)

- This visual reference guide provides students with a general knowledge of management in Dining Room Service and Practice.
- Introduces the principles, concepts, and systems of professional table service, including dining room organization, scheduling, and management of food service personnel.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ②

ISBN: 9781984680273 | Price: \$85 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

## Hospitality and Tourism

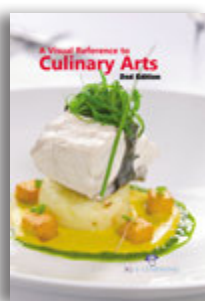


EDITION ②

### A Visual Reference to Bartending (2nd Edition)

- Provides knowledge of bar operations and procedures common in full service bars, along with techniques of pouring and mixing drinks.
- A visual reference guide to popular drinks as well as customer service and advice on how to run a bar, including bar setups, tools, and helpful techniques - recipes for the most popular drinks and punches.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680280 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
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EDITION ②

### A Visual Reference to Culinary Arts (2nd Edition)

- Introduces students to proper dining room procedures and etiquette.
- A visual reference on recipe and menu planning, preparing and cooking of foods, supervising and training kitchen assistants, the management of food supplies and kitchen resources, aesthetics of food presentation, and familiarity or mastery of a wide variety of cuisines and culinary techniques.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680297 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
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EDITION ②

### A Visual Reference to Guest Service (2nd Edition)

- Guest service is a crucial buzzword in the corporate world today. Just about every hospitality establishment seems to understand just how important customer service is and its need.
- This visual reference is specifically designed to develop the learner's skills and behaviors to offer exceptional guest service.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680303 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
Publisher: 3G E-learning LLC



EDITION ②

### A Visual Reference to Restaurant Management and Operations (2nd Edition)

- Students will become familiar with all aspects of a restaurant operation.
- Presents visual information on operational issues, customer satisfaction, restaurant trends and challenges, financial accountability, service issues, and management development.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680310 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
Publisher: 3G E-learning LLC



EDITION ②

### A Visual Reference to Food Styling (2nd Edition)

- Introduce readers to the specialized skills, knowledge and insight to nail professional-standard food styling.
- Readers will get an insight into the food styling industry and find out those tips and tricks that most food stylists only learn on the job.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680327 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
Publisher: 3G E-learning LLC



EDITION ②

### A Visual Reference for Executive chef (2nd Edition)

- The Executive Chef, or Head Chef, plays a combined creative and managerial role in the kitchen.
- This visual reference sheds light on executive chef roles and responsibilities such as managing food and labor costs, developing and pricing menus, and leading a culinary team and demonstrating food preparation skills.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680334 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
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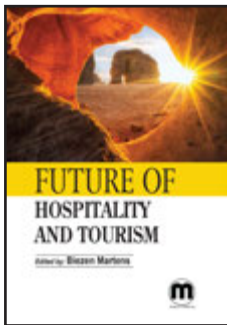


EDITION ②

### A Visual Reference for Prep Cook (2nd Edition)

- Food preparation workers perform preparation duties as part of a kitchen team at a restaurant, hotel, school, or anywhere else that serves food.
- A must-have visual reference for every 21st-century Prep Cook, this book gathers the best infographics of all food preparation styles.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

ISBN: 9781984680341 | Price: \$85 | Copyright: 2023 | Binding: Paperback |  
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### Future of Hospitality and Tourism

*Editor: Biezen Martens*

The future of the hospitality and tourism industry is expected to be shaped by advancements in technology, increased focus on sustainable practices, personalized customer experiences, and the integration of virtual reality and augmented reality in enhancing travel and accommodation experiences. Providing a glimpse into the future, this book explores emerging trends and developments in the hospitality and tourism industry. It discusses the impact of technology, shifting consumer preferences, and global market dynamics on the sector. The book also explores the potential challenges and opportunities that lie ahead for industry professionals and stakeholders.

**Print ISBN: 9781682508923 | \$160 | 2024 | Hardcover |**

**Publisher: Magnum Publishing LLC**



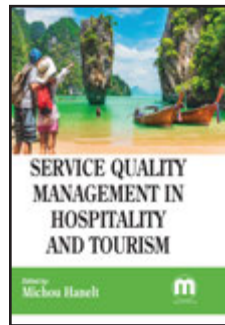
### Customer Experience Management in Hospitality

*Editor: Pinaka Christopher*

Customer experience management in the hospitality industry involves understanding and meeting or exceeding guest expectations at every touchpoint, including pre-booking, arrival, stay, and departure, by providing tailored experiences, anticipating needs, and creating lasting memories to foster customer loyalty. Focusing on the importance of customer experience, this book provides insights into effective management strategies within the hospitality industry. It explores the entire customer journey, from pre-arrival to post-departure, and emphasizes the need for personalized and memorable experiences. The book discusses techniques for understanding customer expectations, managing complaints, and building brand loyalty. The book also discusses the role of technology, data analytics, and social media in enhancing customer experience and engagement.

**Print ISBN: 9781682508947 | \$160 | 2024 | Hardcover |**

**Publisher: Magnum Publishing LLC**



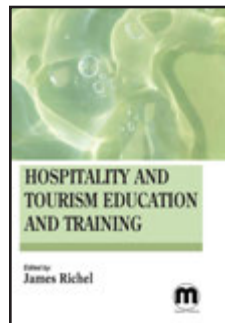
### Service Quality Management in Hospitality and Tourism

*Editor: Michou Hanelt*

Service quality management in the hospitality and tourism sector involves ensuring that guests receive exceptional service throughout their journey, encompassing aspects such as prompt and friendly customer service, attention to detail, personalized experiences, and efficient complaint resolution to create positive guest experiences. This book explores the critical aspect of service quality management within the hospitality and tourism industry. It examines the key principles and frameworks for delivering exceptional customer experiences and exceeding expectations. The book also explores various strategies for assessing and improving service quality, including employee training, process optimization, and customer feedback systems.

**Print ISBN: 9781682508930 | \$160 | 2024 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Hospitality and Tourism Education and Training

*Editor: James Richel*

Education and training in the field of hospitality and tourism are vital for developing skilled professionals who can provide quality services and drive industry growth. Programs and courses focus on a range of topics such as customer service, business management, cultural awareness, and sustainability to prepare individuals for diverse career opportunities. This book offers a comprehensive overview of education and training in the field of hospitality and tourism. It examines the key competencies required for successful careers in the industry and provides insights into curriculum development, teaching methodologies, and assessment techniques. The book explores the importance of practical experience, internships, and industry partnerships in preparing students for the workforce. The book also discusses the challenges and opportunities in hospitality and tourism education and highlights best practices from around the world.

**Print ISBN: 9781682508954 | \$160 | 2024 | Hardcover |**

**Publisher: Magnum Publishing LLC**

# Hospitality and Tourism

## Community Based Tourism



**Deepak Juyal**

Tourism is the act of traveling to different places for pleasure, leisure, or business purposes. This textbook explores the concept of sustainable tourism development in local communities. The book highlights the importance of involving local communities in tourism planning and management processes to ensure that the benefits of tourism are shared fairly. It also discusses various approaches and strategies that can be used to promote community-based tourism. It provides a valuable resource for anyone interested in sustainable tourism development and its potential to benefit local communities.

Copyright 2024 | PB 9781774697153 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Deepak Juyal is an accomplished tourism professional with over 15 years of experience in the industry. He completed his MBA in Tourism from Garhwal University, Uttarakhand in 2005 and went on to work with some of the most reputed names in the business viz. KUONI & TUI, where he managed inbound operations for clients from France, Switzerland, UK, USA & Australia. He also handled domestic operations for the renowned IRCTC brand. Deepak's expertise in tourism operations earned him the position of Assistant General Manager with Purequest Adventures (soft adventure brand of TUI) in 2018. He played a key role in developing the company's business strategy and ensuring its successful implementation. However, his passion for education led him back to his hometown Dehradun, where he joined Graphic Era University as Assistant Professor. He has qualified UGC-NET and is currently pursuing his PhD in Sustainable Tourism. Apart from his professional achievements, Deepak is an avid traveler and adventurer. He has explored many parts of India, including Rajasthan, Himachal Pradesh, Ladakh, Madhya Pradesh, Uttarakhand, Karnataka, and Maharashtra. He has also done trekking in Himachal Pradesh and Uttarakhand and went on a thrilling bike ride to Ladakh. Deepak's love for travel has also taken him to neighboring country Bhutan. Overall, Deepak Juyal is a dynamic professional with a passion for tourism and a commitment to sustainable practices.

## Introduction to Hotel Management



**Deepak Juyal**

Hotel management involves overseeing all aspects of a hotel's operations, including customer service, staff management, financial planning, and marketing. This book covers the fundamental principles and practices of the hospitality industry. The book offers insight into the various aspects of hotel management, including operations, marketing, sales, human resources, and finance. It also delves into the importance of customer service and the role of technology in the hotel industry. The book is suitable for students pursuing a degree in hospitality management, as well as for professionals seeking to expand their knowledge and skills in the field.

Copyright 2024 | PB 9781774697184 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Deepak Juyal is an accomplished tourism professional with over 15 years of experience in the industry. He completed his MBA in Tourism from Garhwal University, Uttarakhand in 2005 and went on to work with some of the most reputed names in the business viz. KUONI & TUI, where he managed inbound operations for clients from France, Switzerland, UK, USA & Australia. He also handled domestic operations for the renowned IRCTC brand. Deepak's expertise in tourism operations earned him the position of Assistant General Manager with Purequest Adventures (soft adventure brand of TUI) in 2018. He played a key role in developing the company's business strategy and ensuring its successful implementation. However, his passion for education led him back to his hometown Dehradun, where he joined Graphic Era University as Assistant Professor. He has qualified UGC-NET and is currently pursuing his PhD in Sustainable Tourism. Apart from his professional achievements, Deepak is an avid traveler and adventurer. He has explored many parts of India, including Rajasthan, Himachal Pradesh, Ladakh, Madhya Pradesh, Uttarakhand, Karnataka, and Maharashtra. He has also done trekking in Himachal Pradesh and Uttarakhand and went on a thrilling bike ride to Ladakh. Deepak's love for travel has also taken him to neighboring country Bhutan. Overall, Deepak Juyal is a dynamic professional with a passion for tourism and a commitment to sustainable practices.

## Introduction to Travel and Tourism



**Israel Tinoco Cajiao**

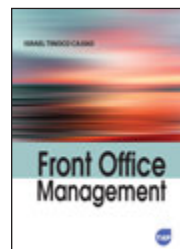
Travel and tourism is a dynamic industry that allows people to explore new places, cultures, and experiences. This book provides an overview of the travel and tourism industry. It covers the history, development, and impact of tourism, as well as the various segments of the industry, such as transportation, lodging, attractions, and events. The book also discusses the key trends and issues affecting the industry, such as sustainability, globalization, and technology. It provides practical insights and real-world examples to help readers understand the business of travel and tourism. The book is written for students, professionals, and anyone interested in learning about the travel and tourism industry.

Copyright 2024 | PB 9781774697177 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Israel is an expert on hotelier activity, with an experience of more than 10 years in hotel Marketing, Sales, and Management. Passionate about tourism investigation. Currently Regional Sales Manager of nine group hotels in Florida. Expert in the development of marketing strategies to make a business profitable based on an efficient investigation. Make research about the expats living in Cuenca Ecuador and the features of this type of tourism. Expert Marketing Research Skills for tourism products and destinations. Tourism degree from the University of Cuenca and a Masters's Degree in Marketing from one of the most valuable universities in Ecuador, ESPOL.

## Front Office Management



**Israel Tinoco Cajiao**

The Front Office department of a hotel is responsible for developing and maintaining the guest database, coordinating guest services, and ensuring guest satisfaction. This is a comprehensive guide to managing the front office operations of hotels, resorts, and other hospitality establishments. The book covers essential topics such as guest services, reservation management, room assignment, and billing and accounting procedures. It also explores important areas such as staff training and development, customer service, and the use of technology in front office operations. The book is written to help hospitality professionals develop the skills and knowledge required to effectively manage front office operations and ensure guest satisfaction.

Copyright 2024 | PB 9781774697191 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Israel is an expert on hotelier activity, with an experience of more than 10 years in hotel Marketing, Sales, and Management. Passionate about tourism investigation. Currently Regional Sales Manager of nine group hotels in Florida. Expert in the development of marketing strategies to make a business profitable based on an efficient investigation. Make research about the expats living in Cuenca Ecuador and the features of this type of tourism. Expert Marketing Research Skills for tourism products and destinations. Tourism degree from the University of Cuenca and a Masters's Degree in Marketing from one of the most valuable universities in Ecuador, ESPOL.





## Room Service Management

**Deepak Juyal**

Room service is a hotel amenity for ordering food and drink to guest rooms. This book is a comprehensive text for managing and improving the quality of room service in the hospitality industry. It provides practical tips and strategies for creating efficient room service operations that meet and exceed guest expectations. Whether you're a hotel manager or a food service professional, this book is an essential resource for optimizing your room service operations.

Copyright 2024 | PB 9781774697368 | Price: \$110 | Publisher: Toronto Academic Press

### About the Author

Deepak Juyal is an accomplished tourism professional with over 15 years of experience in the industry. He completed his MBA in Tourism from Garhwal University, Uttarakhand in 2005 and went on to work with some of the most reputed names in the business viz. KUONI & TUI, where he managed inbound operations for clients from France, Switzerland, UK, USA & Australia. He also handled domestic operations for the renowned IRCTC brand. Deepak's expertise in tourism operations earned him the position of Assistant General Manager with Purequest Adventures (soft adventure brand of TUI) in 2018. He played a key role in developing the company's business strategy and ensuring its successful implementation. However, his passion for education led him back to his hometown Dehradun, where he joined Graphic Era University as Assistant Professor. He has qualified UGC-NET and is currently pursuing his PhD in Sustainable Tourism. Apart from his professional achievements, Deepak is an avid traveler and adventurer. He has explored many parts of India, including Rajasthan, Himachal Pradesh, Ladakh, Madhya Pradesh, Uttarakhand, Karnataka, and Maharashtra. He has also done trekking in Himachal Pradesh and Uttarakhand and went on a thrilling bike ride to Ladakh. Deepak's love for travel has also taken him to neighboring country Bhutan. Overall, Deepak Juyal is a dynamic professional with a passion for tourism and a commitment to sustainable practices.



## Exploration of Emerging Source Markets in the Hospitality Sector

**Sunil Kabia**

The hospitality industry encompasses a wide range of organizations and administrations associated with recreation and customer satisfaction. This industry is closely related to and a component of the tourism industry. It is an important component of the tourism industry's value chain. This book primarily, aims and seeks to identify and examine the paradigm shifts in the tourism industry over the seeming years and how the trends have behaved. It aims to investigate current trends in the hotel and tourism industries, to highlight the issues that the hospitality and tourism industries face, and to critically appraise the industry's future possibilities.

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### About the Author

Prof. (Dr.) Sunil Kumar Kabia, B.Sc. (Hons), MTA, Ph.D., Dip IATA FIATA. He is currently working as Professor in Institute of Tourism & Hotel Management, Budelkhand University, India. He has 26 years of experience in teaching and handling other Academic positions. He is a member of board of studies and committees of various universities and governing council of various colleges. He has authored 4 books and published 35 research papers.



## New Service Modalities for Restaurants

**Merly Fiscal Arjona**

The restaurant and hotel industries are continually evolving and expanding. Modern restaurant operations necessitate the incorporation of many aspects of sustainability, innovation, and new methods to consumer communication, as well as the deployment of new restaurant trends. In this day and age, it is critical for restaurant businesses to understand both themselves and their customers. The book discusses some of the important themes that will likely dominate the industry and will shape it for many years to come. In this context, the goal of this book is to provide a comprehensive assessment of the trends and forecasts in the restaurant business, as well as recommendations to the key stakeholders.

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### About the Author

Merly Fiscal-Arjona, MAT, Ph.D., Associate Professor IV of Laguna State Polytechnic University, Siniloan, Campus, Siniloan Laguna, Philippines. She graduated from the Laguna State Polytechnic University, Siniloan, Campus, with the Degree of Master of Arts in Teaching, Major in Technology and Home Economics. She took her Doctor of Philosophy Major in School Leadership and Management in St. Dominic Savio College, Caloocan, City. Her professional experience includes an assessor in different Hotel and Restaurant Competency in TESDA. She was also the former Dean of the College of Hospitality Management and Tourism, Siniloan Campus, Siniloan, Laguna, Philippines. She is an active member of Association of Administrators in Hospitality Hotel and Restaurant Management Educational Institution (AAHRMEI) and many more. She has attended seminars and trainings in Hotel and Restaurant Management and member of several professional organizations, At present, her greatest joy at the moment is to share her knowledge, expertise and give prestige to her students.



## How Restrictions on Travel Impact on the Tourism Sector

**Merly Fiscal Arjona**

It is clear that COVID-19 is not going away and will continue to challenge international air travel. As a result, everyone in the airline industry and other industries that require international travel has learned how to deal with the new travel restrictions. The volume outlines the socioeconomic impact of the pandemic on tourism, including the millions of livelihoods it has affected. It highlights the role of tourism in advancing the SDGs, including its relationship to environmental goals and culture. The author calls for urgent mitigation of the impact on livelihoods, especially for youth, women, and informal workers. This crisis provides a chance to reconsider how tourism affects the society, other sectors of the economy, and natural resources and bionetworks; to evaluate and supervise it better; ensure its benefits are equitably distributed, and drive a shift towards carbon neutrality and the transformation of a robust tourism economy. This volume provides recommendations on priority areas to mitigate the drastic impact on lives and economies and develop people-centered tourism. It provides examples of government support for the industry, calls for reopening to prioritize the staff health and safety, travelers and host communities, and offers a road map to transform tourism.

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### About the Author

Merly Fiscal-Arjona, MAT, Ph.D., Associate Professor IV of Laguna State Polytechnic University, Siniloan, Campus, Siniloan Laguna, Philippines. She graduated from the Laguna State Polytechnic University, Siniloan, Campus, with the Degree of Master of Arts in Teaching, Major in Technology and Home Economics. She took her Doctor of Philosophy Major in School Leadership and Management in St. Dominic Savio College, Caloocan, City. Her professional experience includes an assessor in different Hotel and Restaurant Competency in TESDA. She was also the former Dean of the College of Hospitality Management and Tourism, Siniloan Campus, Siniloan, Laguna, Philippines. She is an active member of Association of Administrators in Hospitality Hotel and Restaurant Management Educational Institution (AAHRMEI) and many more. She has attended seminars and trainings in Hotel and Restaurant Management and member of several professional organizations, At present, her greatest joy at the moment is to share her knowledge, expertise and give prestige to her students.



## Key Concepts in Hotel Management

**Jennifer Raga**

This book emphasizes various key terms that play a significant role in the field of Hotel Management. Hotel Management is a field of business and a study, that tends itself to the operational aspects of a hotel as well as a wide range of affiliated topics. These include accounting, administration, finance, information systems, human resource management, public relations, strategy,

marketing, revenue management, sales, change management, leadership, gastronomy and more.

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### About the Author

Jennifer is a Tourism and Hospitality Management Specialist with more than 15 years of experience in the industry, giving academic training to University Students and Local Communities about Tourism, Hospitality and Events Management with Eviatour C.A.. She holds a BA in Tourism Business Management and a Postgraduate Diploma in Hospitality Management awarded from the University of Birmingham UK.



## Key Concepts in Tourism

**Jennifer Raga**

This book explains various key concepts and terms that are relevant to the context of Tourism. Tourism is travel for pleasure or business; also the theory and practice of touring, the business of attracting, accommodating, and entertaining tourists, and the business of operating tours.

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### About the Author

Jennifer is a Tourism and Hospitality Management Specialist with more than 15 years of experience in the industry, giving academic training to University Students and Local Communities about Tourism, Hospitality and Events Management with Eviatour C.A.. She holds a BA in Tourism Business Management and a Postgraduate Diploma in Hospitality Management awarded from the University of Birmingham UK.



## Food and Beverage Service

**Israel Tinoco Cajiao**

F&B department maintains food quality & service, manages restaurants/bars, and oversees food costing for high quality. Covering all aspects of the food and beverage industry, from basic food preparation to customer service, this textbook is written to provide readers with a thorough understanding of the various roles and responsibilities in the industry. With its practical approach, the

book is an essential resource for students and professionals alike, providing valuable insights into the latest trends and best practices in the food and beverage industry. Whether you are just starting out or looking to advance your career, this book is an indispensable tool for anyone interested in the food and beverage industry.

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### About the Author

Israel is an expert on hotelier activity, with an experience of more than 10 years in hotel Marketing, Sales, and Management. Passionate about tourism investigation. Currently Regional Sales Manager of nine group hotels in Florida. Expert in the development of marketing strategies to make a business profitable based on an efficient investigation. Make research about the expats living in Cuenca Ecuador and the features of this type of tourism. Expert Marketing Research Skills for tourism products and destinations. Tourism degree from the University of Cuenca and a Masters's Degree in Marketing from one of the most valuable universities in Ecuador, ESPOL.



## Housekeeping Management

**Deepak Juyal**

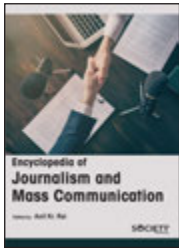
This book covers all aspects of managing a successful housekeeping department. The book includes essential information on organizing, staffing, training, and supervising a housekeeping team. It also provides insights into effective communication, time management, and budgeting skills for running a successful operation. The book is a must-read for hospitality professionals and students,

providing practical tips and strategies to optimize housekeeping services and enhance the guest experience. Whether you are a seasoned housekeeping manager or just starting your career in hospitality, this book provides valuable insights into the crucial role that housekeeping plays in the overall success of a hotel or resort.

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### About the Author

Deepak Juyal is an accomplished tourism professional with over 15 years of experience in the industry. He completed his MBA in Tourism from Garhwal University, Uttarakhand in 2005 and went on to work with some of the most reputed names in the business viz. KUONI & TUI, where he managed inbound operations for clients from France, Switzerland, UK, USA & Australia. He also handled domestic operations for the renowned IRCTC brand. Deepak's expertise in tourism operations earned him the position of Assistant General Manager with Purequest Adventures (soft adventure brand of TUI) in 2018. He played a key role in developing the company's business strategy and ensuring its successful implementation. However, his passion for education led him back to his hometown Dehradun, where he joined Graphic Era University as Assistant Professor. He has qualified UGC-NET and is currently pursuing his PhD in Sustainable Tourism. Apart from his professional achievements, Deepak is an avid traveler and adventurer. He has explored many parts of India, including Rajasthan, Himachal Pradesh, Ladakh, Madhya Pradesh, Uttarakhand, Karanataka, and Maharashtra. He has also done trekking in Himachal Pradesh and Uttarakhand and went on a thrilling bike ride to Ladakh. Deepak's love for travel has also taken him to neighboring country Bhutan. Overall, Deepak Juyal is a dynamic professional with a passion for tourism and a commitment to sustainable practices.



## Encyclopedia of Journalism and Mass Communication

**Editor: Anil Kr. Rai**

This volume traces the historical development of print, broadcasting, public relations, and advertising and their impact on society, while examining the rapid growth and development of the Internet. It introduces readers to inventors, patents, copyright regulations, screenplay formats, national media regulation laws, and careers in the media industry. At the same time, the course explores how the media reflects and inspires cultural, political and ethical norms, with an emphasis on different storytelling techniques based on audience and communication style. The volume also explores the role of mass media in creating for audiences. The purpose of this volume is to introduce the reader to the principles, concepts, policies and practices of the mass media industry (broadcast, internet, print, and digital communications) and related advertising and public relations industries. Regulations, global impacts and changes are also discussed.

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### About the Author

Dr. Anil Kumar Rai is currently Professor in Mass Media – Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya, Wardha (Maharashtra) since 07th July 2009 to till date. He holds Ph.D. in Journalism and Mass Communication from Berhampur University, Berhampur, Orissa. He has been Pro-Vice-Chancellor - Mahatma Gandhi Central University, Motihari, District – East Champaran, Bihar since 29th October 2018 to 17th December 2019. He has also been Vice-Chancellor (I/c) - Mahatma Gandhi Central University, Motihari, District –East Champaran, Bihar since 15th November 2018 (A/N) to 13th April 2019 (F/N). He has attended several positions at different institutions. He has attended Leadership for Academicians Program (LEAP) of Ministry of Human Resource Development (MHRD), New Delhi organized by Banaras Hindu University (BHU), Varanasi, Uttar Pradesh in collaboration with Nanyang Technological University (NTU), Singapore held at Varanasi, Uttar Pradesh (India) from 23rd September 2019 to 6th October 2019; and Singapore from 8th October 2019 to 12th October 2019. He has received several honour/ awards. He has authored and published several books and research papers in national and international publications.



## Emotions, Media and Politics

**Editor: Thomas Wetere Tulu**

The communication of political information is an important process in the political system, and the mass media play a central role in this activity. New media have radically altered the way that government institutions operate, the way that political leaders communicate, the manner in which elections are contested, and citizen engagement. This book will briefly address the evolution of new media, before examining in greater detail their role in and consequences for political life. The book opens up new ways of thinking about and researching emotions, media and politics.

Print ISBN: 9781682508480 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Fundamentals of Public Communication Campaigns

**Editor: Peng Huang**

As public communication campaigns grow more sophisticated and strategic, evaluation is not keeping pace with their innovation. While funders are asking for more information on results, evaluators are grappling with how to make their way in this developing and challenging field. This book aims to understand the strategies and theories that guide campaigns and how to choose the right outcomes and methods to assess them. The book also describes and analyzes the contexts, policies, issues, and questions that shape public sector communication.

Print ISBN: 9781682508473 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Social Media and Journalism

**Editor: Julia Lindhe**

From fact-checking to breaking news on Twitter, social media and journalism are inseparable. It has become the fastest and easiest way to access current topics worldwide. Social media for journalists goes beyond news consumption to news production. It is a critical part of the journalism process to reach a large audience, gather insight, interact with their viewers, and share breaking news faster than ever. The book covers the best practices of social media for journalists.

Print ISBN: 9781682508497 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



## Global Media Ethics: Problems and Perspectives

**Editor: Elisa Domi**

Global media ethics is the study and application of the norms that should guide the responsible use of informational public media that is now global in content, reach, and impact. Its aim is to define responsible use of the freedom to publish for journalism, online commentary, political advocacy, and social media. The book aims at developing a comprehensive set of principles and standards for the practice of journalism in an age of global news media.

Print ISBN: 9781682508527 | \$160 | 2023 | Hardcover |

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## Journalism and Mass Communication



### International News Reporting

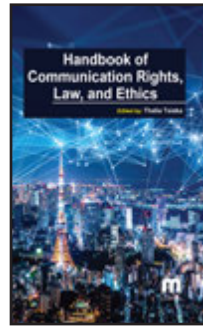
*Editor: Chan Saem Gil*

News reporting involves discovering all relevant facts, selecting and presenting the important facts and weaving a comprehensive story. This book shows students the fundamentals of reporting and writing and examines the values that direct and underlie the practice of journalism. This book presents the fundamentals of news reporting and writing, thereby providing basic journalistic skills and knowledge. Students and teachers should find the book useful as source of information that

should add to whatever the lecturer might provide in class.

**Print ISBN: 9781682508503 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Handbook of Communication Rights, Law, and Ethics

*Editor: Thalia Tsiaka*

Communication represents an essential and very important human need as well as a basic human right. The right to communication should be considered in the framework of the freedom of expression and the pluralist democracy. The book delivers an extensive review of the challenges facing modern communication rights. It offers readers an examination of the interplay between communication law and ethics and the role played by communication professionals in protecting individuals' rights to communication. The book is valuable for professors, graduate students, doctoral students, and postdoctoral researchers studying communication rights and freedom of expression around the world.

**Print ISBN: 9781682508510 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



## Handbook of Semantics

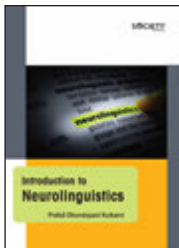
**Prafull Dhondopant Kulkarni**

Semantics is a subject of linguistics and a discipline of language concerned with the study of the meanings of various types of linguistic units, ranging from smaller ones such as words, sentences, or phrases to larger units of speech, collectively referred to as texts. This book entitled, "Handbook of Semantics" has been designed to add to the knowledge of researchers, scholars and the students of linguistics to enlighten them with the basic concepts of semantics, various meaning of language and their applications in day-to-day life. The book takes the readers through an overview of the semantics, its various theories and how these theories assist the learners in gaining the intricate nuances of the written and spoken language and enhance their understanding of various meanings of single instance of the language. For undergraduate students, this concise and thorough textbook serves as an introduction to the topic. It not only gives students the concepts they need to comprehend the fundamentals of semantics but also introduces them to the many types of reasoning and argumentation that are common in the discipline. It includes numerous discussion areas that are meant to test and improve the comprehension of readers. It effectively explains and contrasts alternative theoretical perspectives, summarizes current disputes, and gives useful suggestions for future reading, making it more comprehensive than other textbooks.

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### About the Author

Dr. Prafull D. Kulkarni is an experienced professor of English, a recognized research supervisor, and an author of international repute. He has to his credit over fifteen books as an author, five volumes as an Editor, over ten international research papers, and nine research projects on various themes of English language, literature, drama, culture, and folklore. Besides teaching literature courses for the past twenty-nine years in the public universities of India and Africa, he supervises PhD and M.Phil. scholars in a public university in India.



## Introduction to Neurolinguistics

**Prafull Dhondopant Kulkarni**

This book talks about the Neurolinguistics: history, theories and models. It throws light on the cognitive neuroscience of language, and the neuroanatomy of language. It puts emphasis on the mapping language in brain time and brain space, and bilingualism and literacy In neurolinguistics. Towards the end, it discusses about the neurolinguistics and linguistic aphasiology, morphology and the mental lexicon, and neurolinguistics and anatomy of brain.

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### About the Author

Dr. Prafull D. Kulkarni is an experienced professor of English, a recognized research supervisor, and an author of international repute. He has to his credit over fifteen books as an author, five volumes as an Editor, over ten international research papers, and nine research projects on various themes of English language, literature, drama, culture, and folklore. Besides teaching literature courses for the past twenty-nine years in the public universities of India and Africa, he supervises PhD and M.Phil. scholars in a public university in India.



## Sounds in Dialects and Languages: An Introduction to Phonology

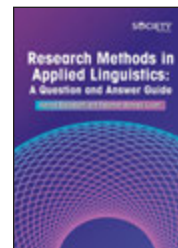
**Prafull Dhondopant Kulkarni**

Phonology is a subject of linguistics and a discipline of language. It encompasses the study of the sounds of that language and its linguistic units. This book entitled, "Sounds in Dialects and Languages" has been designed to add to the knowledge of the researchers, scholars and the students of this branch of linguistics to enlighten them with its basic concepts and with their applications in day-to-day life. The book introduces the readers to several aspects of the sounds of the English language and its various dialects. It sheds light on the characteristics and intricate nuances of English Phonology and its sound system. The book also enlightens the readers with the physics of sound. It explains the concept of the propagation of sounds, resonance, decibels, and the scale of the sounds in English. It also emphasizes various other factors affecting its pronunciation, the phonological influence on phonetic change, phonemic incidence, and targets of phonetic implementation. Furthermore, the book sheds light on the concept of varieties of English and various dialects of English using the IPA phonetic system of the language. It also talks about the dialect of "standard" American English (AE), its varieties, and the phonetic concepts the languages other than English. Therefore, for the undergraduates, this concise and thoroughly researched book serves as handy reference material on linguistics. It not only gives students the concepts they need to comprehend the fundamentals of the sound system of the language and its various dialects but also introduces them to the types of reasoning and argumentation that are common in the discipline.

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### About the Author

Dr. Prafull D. Kulkarni is an experienced professor of English, a recognized research supervisor, and an author of international repute. He has to his credit over fifteen books as an author, five volumes as an Editor, over ten international research papers, and nine research projects on various themes of English language, literature, drama, culture, and folklore. Besides teaching literature courses for the past twenty-nine years in the public universities of India and Africa, he supervises PhD and M.Phil. scholars in a public university in India.



## Research Methods in Applied Linguistics: A Question and Answer Guide

**Hamed Barjesteh and Fatemeh Ahmadi Livani**

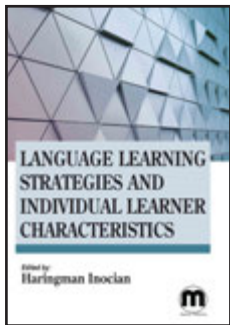
This book is a question and answer guide which provides novice researchers and practitioners to demystify the conceptual complexities associated with the certain topics of research methods in applied linguistics. We provided the intended readerships with a substantive source by which they can acquire a first hand, immediate experience in the main issues arise in the field of research in applied linguistics. The key feature of the book is its authentic treatment of a wide range of current and controversial topics dominating polemical debates defining the interlocking dimensions in research methods. The present book adopts maieutic method for teaching which is a form of cooperative argumentative dialogue between individuals, based on asking and answering questions to stimulate critical thinking and to draw out ideas and underlying presumptions overshadowing different areas of concern in applied linguistics. The Q and A approach of the of the book will promote awareness-raising reading and foster critical thinking mode among the readers.

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### About the Authors

Hamed Barjesteh is an associate professor of Education, Professor of applied linguistics, and a faculty member of Islamic Azad University, Ayatollah Amoli branch, Amol, Iran. A teacher educator for 20 years, Hamed Barjesteh has published several books and articles on teaching English to young and adult language learners and presented at conferences at various national and international levels. He has trained teachers and supervised many MA theses and Ph.D. dissertations. He serves as the head of English Language department, an editor and a reviewer for various journals and conferences. His research interests lie in the field of critical language pedagogy, thinking skills in language learning, Critical Language testing, dynamic assessment, and corrective feedback.

Fatemeh Ahmadi Livani is a Ph.D. candidate in Teaching English as a foreign language. She works as a part time teacher in different universities. She attended different national and international conferences on researches and language education. She is interested in L2 research, language assessment, and corrective feedback.



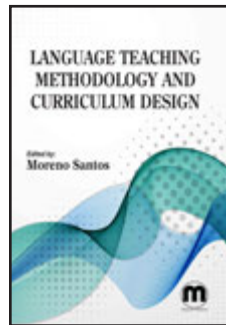
## Language Learning Strategies and Individual Learner Characteristics

Editor: *Haringman Inocian*

Language learning strategies are techniques and approaches employed by individuals to acquire a new language effectively. Considering individual learner characteristics helps tailor language learning strategies to optimize the learning process and promote language proficiency. Focusing on language learning, this book explores various strategies and techniques that learners can employ to enhance their language acquisition process. It examines the role of individual learner characteristics, such as motivation, aptitude, and learning styles, in shaping effective learning strategies. The book discusses the importance of metacognitive skills, self-regulation, and cultural awareness in language learning.

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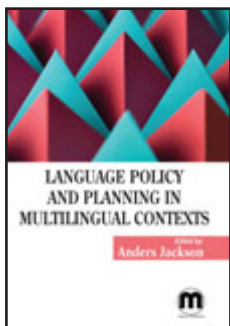
## Language Teaching Methodology and Curriculum Design

Editor: *Moreno Santos*

Language teaching methodology involves the selection and implementation of instructional techniques and approaches to facilitate language learning in educational settings. Curriculum design in language teaching encompasses planning and organizing the content, objectives, and assessment methods to ensure comprehensive language development. This book highlights the principles and practices of language teaching methodology and curriculum design. The book discusses the importance of learner-centered instruction, authentic materials, and meaningful interactions for effective language teaching. The book also addresses curriculum design considerations, including setting learning objectives, selecting appropriate content and assessments, and incorporating cultural elements.

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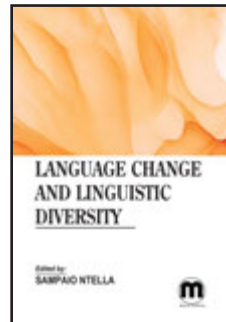
## Language Policy and Planning in Multilingual Contexts

Editor: *Anders Jackson*

Language policy and planning involve making informed decisions regarding language use, language education, and language rights in multilingual societies. Effective language policies aim to promote linguistic diversity, preserve cultural heritage, ensure equal access to education, and foster social integration and cohesion. This book examines the complex field of language policy and planning in diverse multilingual contexts. It explores the sociopolitical factors that shape language policies, including language ideologies, power dynamics, and language rights. The book discusses the challenges of language planning in multicultural societies, language revitalization efforts, and the role of education in language policy implementation. The book also deals with the implications of language policies on linguistic diversity, identity, and social inclusion, offering insights and recommendations for policymakers and educators.

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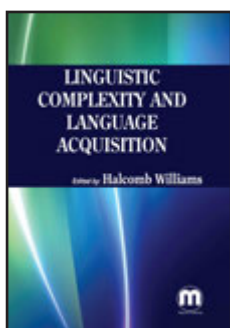
## Language Change and Linguistic Diversity

Editor: *Sampaio Ntella*

Language change is an ongoing process influenced by various factors, such as cultural shifts and contact with other languages, leading to linguistic diversity, where different languages and dialects coexist within a society. This book explores the dynamic nature of language and its evolution over time, emphasizing the importance of linguistic diversity. It deals with the factors influencing language change, such as globalization, migration, and technological advancements, providing a comprehensive understanding of the subject.

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Publisher: Magnum Publishing LLC



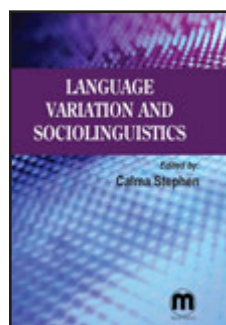
## Linguistic Complexity and Language Acquisition

Editor: *Halcomb Williams*

The complexity of a language, including its grammar and vocabulary, poses challenges during language acquisition, requiring learners to develop proficiency through exposure, practice, and interaction with native speakers or language resources. Focusing on the process of language acquisition, this book examines the intricate relationship between linguistic complexity and language learning. It discusses how individuals acquire and develop language skills, taking into account factors such as cognitive abilities, social interaction, and cultural influences.

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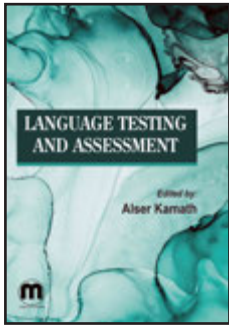
## Language Variation and Sociolinguistics

Editor: *Calma Stephen*

Language variation refers to the different ways in which a language is used by different groups or individuals, and sociolinguistics explores how social factors influence this variation and shape linguistic patterns within a community. Investigating the diverse ways in which language varies across different social contexts, this book deals with the field of sociolinguistics. It explores the connection between language and society, analyzing factors such as social class, ethnicity, gender, and geographical location, and their impact on language variation and usage.

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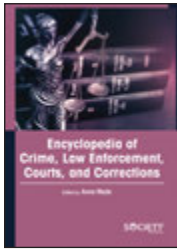
### Language Testing and Assessment

*Editor: Alser Kamath*

Language testing and assessment aim to measure individuals' language proficiency, considering different skills like speaking, listening, reading, and writing, often employing standardized tests or performance-based assessments to evaluate language learners' abilities. This book offers a comprehensive overview of language testing and assessment methodologies. It covers a wide range of topics, including test design, validity and reliability, test administration, scoring, and interpretation. It also discusses the role of language testing in various contexts, such as education, immigration, and employment.

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**Publisher: Magnum Publishing LLC**



## Encyclopedia of Crime, Law Enforcement, Courts, and Corrections

**Anne Wade**

A crime is an unlawful act for which someone will be subject to a special punishment from the government. It is usually a serious violation of the law. Crimes are prosecuted by prosecutors. Such attorneys may represent the city, county, state, or federal government. Examples include state attorneys general, federal district attorneys, and district attorneys. Criminal offenses are classified as major (felony) or minor (misdemeanor) offenses against public policy, or infractions, and are tried according to the rules of the Criminal Procedure Code. The criminal justice system refers to the collection of federal, state, and local agencies that deal with crime. These agencies deal with suspects, defendants, and convicted criminals, and are interdependent in that the decisions of one agency affect other agencies. The basic framework of the system consists of the legislature, the judiciary, and the executive branches of office. This volume of cases defines the main components of the justice system, the police, courts, and correctional facilities, which serve to prevent or deter crime by arresting, adjudicating, and punishing criminals. The police department is a public institution whose role is to maintain order, enforce criminal laws and provide services to citizens. The court is where the criminal responsibility of a person accused of violating a criminal law is determined by a jury or a judge. Corrections can include probation, imprisonment, and a range of new community-based sanctions such as electronic surveillance and house arrest. The purpose of correctional institutions is to punish, rehabilitate, and protect public safety. In some countries, the purpose is only to punish and protect the public with other groups taking on the rehabilitative functions.

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### About the Editor

*Dr. Anne Wade has been a researcher and an instructor in the Criminal Justice field for 27 years. She is currently an Associate Professor at a Community College in North Carolina. She holds an Ed.D. in Educational Leadership and a Ph.D. in Public Safety Leadership/Criminal Justice. Her research interests are in Criminology, Victimology, and the Human Services. She is married to Wesley Wade. She is an artist, writer, research, teacher, and trainer.*

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### Key Concepts in Library Science

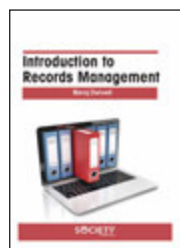
**Kumar Gaurav**

The book addresses numerous key definitions or terms of Library Science. Library science is an academic discipline that is sometimes referred to as information studies. This field focuses on how to classify and use data or objects and emphasizes the importance of preserving knowledge and promoting literacy.

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#### About the Author

Kumar Gaurav is M.Phil in Library and Information Science Mahatma Gandhi Central University, Motihari, India. He has 7 years of experience in Library profession. He has many research papers to his name. He has also attended many conferences and seminars.



### Introduction to Records Management

**Manoj Kumar Dwivedi**

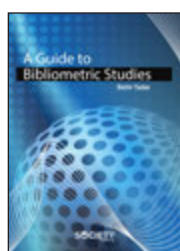
Records are any documented information, regardless of form or media, received and maintained by an agency, institution, organization, or individual in the course of fulfilling its legal obligations or doing any type of business. This book will look at library records, their significance, needs, types, and the responsibilities they

perform in different divisions of a library. This book investigates record management and its current tendencies. It examines the concept of a record as both evidence and proof of essential transactions carried out in an organization.

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#### About the Author

Dr. Manoj Kumar Dwivedi obtained his Ph. D. (Library & Information Science) from Uttar Pradesh Rajarshi Tandon Open University Allahabad in 2013. He is working as cataloguer since 6th August 2001 in Central Library D. D. U Gorakhpur University Gorakhpur. He has teaching experience as UG and PG Level Teaching from 2002 in Department of Library and Information Science Deen Dayal Upadhyay Gorakhpur University, Gorakhpur; UG and PG Level Counseling from 2002 in Rajarshi Tandon Open University, (Deen Dayal Upadhyay Gorakhpur University Gorakhpur, Center). He has also worked as a Data capturing worker in Central Library, B.H.U., Varanasi under INFLIBNET Project funded by UGC from 12th December 2000 to 4th August 2001. He has written several research articles in national and international journals and published books with Society Publishing. He has attended several Workshop/Seminar at different places.



### A Guide to Bibliometric Studies

**Shishir Yadav**

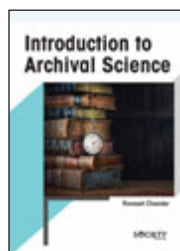
Bibliometrics is the study of the relationships between numbers and patterns in bibliographic data and use, such as the number of publications, the growth of literature, and patterns of library and data base utilization. This book will go through bibliometrics and one of its main methodologies, citation analysis. This book also

looks at the applications of citation analysis. This book examines a number of alternative measures, or "altmetrics," as well as the ethical and cultural implications of relying on metrics.

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#### About the Author

Dr. Shishir Yadav holds B.Lib. I.Sc., M.Lib.I.Sc, M.Phil.,NET & Ph.d(Library Science). He is working in Central Library, CSJM University, Kanpur Last 17 Years. He has authored several research papers in international/national conference/journals. He has published two books in Library Science. He has attended several Workshop/Seminar at different places.



### Introduction to Archival Science

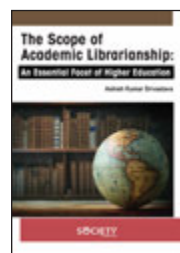
**Romesh Chander**

Records that are categorized at the time of their generation constitute a large portion of public records created by state and public administration entities in general. At the same time, they are an important component of the production of historical sources, a portion of which should be permanently kept in the relevant public archives. This book addresses the theory, methodology, and practice of archive science. Furthermore, it studies various cultural approaches to the development, administration, and dissemination of archives, records, and data. It also aims to facilitate the interchange and comparison of concepts, perspectives, and attitudes concerning recordkeeping concerns around the world.

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#### About the Author

Romesh Chander is working as Senior Assistant Librarian in the Central Library, Central University of Jammu. He has vast experience of working in the libraries. His qualification is M.Lib.Sc (UGC-NET), M.Lib.Sc (UGC-NET), PGDCA, PGDBM PGDBM. He is expert in library automation, institutional repository, and digital library. He has done automation in various Government degree colleges in Jammu. He has presented good number of national publications and also participated in various national seminars, workshops and conferences.



### The Scope of Academic Librarianship: An Essential Facet of Higher Education

**Ashish Kumar Srivastava**

With the growth of digital technology, the function of the library and librarian in higher education has been greatly extended as a number of issues have arisen. As a result of our technologically driven society, the role of the library and librarian has altered in recent years. This book focuses on academic libraries' mediating role in supporting teaching, learning, research, and innovation in higher education institutions in terms of collection development, positioning university libraries as research hubs, positioning as a hub for students' learning and success, technology integration and implementation, fostering diversity and inclusion, open access advocacy, accreditation, and quality assurance, library collaboration and partnership, and organizational development.

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#### About the Author

Dr Ashish Kumar Srivastava was born in 13 June 1975 and started journey of library science career in 1998 from Budelkhand University, Jhansi. He is top ranker of Jiwaji University M.Lib & I.Sc. batch 2000. After Completion of M.Lib.& I.Sc. He qualified UGC-NET in 2000. He started his career from Central Secretariat, New Delhi. Joind Tata Infotech Noida in 2001. He worked as Lecturer cum Assistant Librarian in Amrapali Institute, Haldwani from 2003 -2004. joined CSJM University Central Library in 2004 and since 2008 he is working as I/c- University Librarian to till date. He qualified M.phil in 2010, MCA in 2012 and Ph.D. in 2016 entitled "Impact of Electronic Media on University Libraries of Uttar Pradesh: A survey."

Number of research papers published in premium journals. He is member of several national and international societies and has delivered many lectures as resource person.

Number of books had been written by him in almost every area of library and Information Sciences.

He has Developed a unique Lab in Central Library with the application of Assistive Technologies for the differently abled person to access available library resources. Complete automation of Central Library is done under his supervision and the work of digitization is in under progress.

He designed library OPAC system and integrated with SOUL20 database and Designed Library Intranet and Internet web site, Blogs and discussion forum for Central Library.

Besides of this He had been Members of different core committees i.e Examination committee, Flying squad, IQAC, NAAC, UGC NET, Nodal officer of UGC Grant etc.



## Strategies for Improving Library Performance

**B. Pradhan**

Libraries used to hold printed materials before the arrival of ICT. However, in the 21st century, libraries have seen a significant improvement in information development and retrieval. These libraries no longer retain solely printed resources, but also a mix of print and electronic databases, as well as online resources made available in the library via ICT. This book discusses 21st-century library and information services for the enhancement of library performance.

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### About the Author

Dr. Bijayananda Pradhan is Assistant University Librarian (Sr. Scale) & In-Charge Central Library and OSD (Teaching Recruitment Section) Central University of Odisha. He qualified UGC NET in Library & Information Science for lectureship by UGC in the year 2009. He has been with Defence Scientific Information & Documentation Centre (DESIDOC), Defence Research & Development Organization (DRDO), New Delhi. Worked in various sections like acquisition, technical processing, reference, digital library and publication division etc. Heading the Central Library from 2011 to till date. Planning and Implementation of integrated library management software (Koha), Creation of IR and ETD of CUO using DSpace in Central Library. He is also the University coordinator for Shodhganga repository and Urkund anti-plagiarism software of CUO. He has also participated in a large number on seminars/workshops/conferences, presented papers/keynote address and chaired technical sessions. He has authored several books.



## Library Outreach and Community Engagement

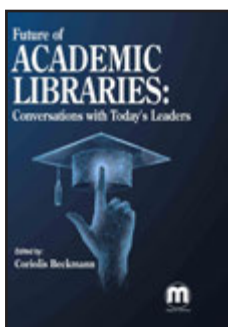
Editor: Jindong Spitzer

Library outreach initiatives actively involve libraries in the community by offering services, programs, and resources that cater to diverse user needs, fostering engagement, and building strong relationships between libraries and their communities. Focusing on the evolving role of libraries, this book explores strategies for engaging with communities and extending library services beyond traditional boundaries.

It examines various outreach initiatives, partnerships, and programs aimed at fostering community connections and addressing the diverse needs of library users.

Print ISBN: 9781682509036 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



## Future of Academic Libraries: Conversations with Today's Leaders

Editor: Coriolis Beckmann

The future of academic libraries is shaped by emerging trends such as technological advancements, changing user behaviors, and evolving scholarly communication models, leading to a shift towards more collaborative, flexible, and digitally-oriented library spaces and services. Drawing on interviews with prominent leaders in the field, this book offers insights into the future direction of academic libraries. It discusses

emerging trends, technologies, and innovative practices that are shaping the academic library landscape, providing valuable perspectives on how libraries can adapt and thrive in the digital age.

Print ISBN: 9781682509050 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



## Internet Search Engines and Libraries

**K.B. Agadi**

There are several reasons why libraries are hesitant to take action to improve the problem. With the advancement of technology and the increase in the amount of content available on the internet, it has become more difficult for users to find and use information, as well as for content providers to classify and catalog documents.

With the passage of time, various strategies and technologies for handling information more quickly and effectively have arisen. This book examines search engines, which are a useful tool for library personnel. The book examines different elements of search engines, such as the history of search engines and how search engines work.

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### About the Author

Dr. Kotrayya B. Agadi presently working as Librarian I/c, Central University of Gujarat, Gandhinagar Since 2011. He has also served as Librarian, in University, R&D Institutions. Dr. Agadi did his MLISc and PhD from Karnatak University Dharwad and Post Graduate Diploma in Library Automation Network from the University of Hyderabad, Hyderabad. His areas of interest Digital Library, Bibliometrics Study, Scientometrics Study, Research Data Management, Open Data and Open Science, Mapping of Science Indicators, Data Mining. He possesses more than 22 years of rich experience managing various types of libraries and information centres. He is also teaching in Library and Information Science in School of Library and Information Science, CUG since 2012 to 2018. He has guided MLISc dissertation to students. He has authored more than 28 research papers published in different journals and conference proceedings, book chapters and also participated National and International Conference Level. He had delivered lectures and chair the sessions at various conference, and institutions. He had been participated and presented paper in International Conference in France and Japan.



## Managing Digital Collections

Editor: Emery Thomson

With the rapid growth of digital resources, libraries must efficiently manage their digital collections, including e-books, digital archives, and online databases, by implementing effective strategies for acquisition, preservation, organization, and accessibility to meet the evolving information needs of users. This book provides insights into the management and preservation of digital collections in libraries. It covers topics such as digital asset management, metadata

standards, digitization processes, copyright considerations, and long-term preservation strategies. It also explores the challenges and opportunities associated with digital collections in the ever-changing digital landscape.

Print ISBN: 9781682509043 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



## User Experience in Libraries

Editor: Varghese Beyer

User experience (UX) focuses on enhancing the quality of users' interactions with library services, spaces, and resources, ensuring ease of access, intuitive navigation, personalized services, and responsive support to optimize users' satisfaction and engagement. Focusing on enhancing user satisfaction and engagement, this book explores the principles and practices of user experience design in libraries. It examines various aspects, including space design, information architecture, website usability, and service delivery, aiming to create positive and meaningful interactions between users and library resources.

Print ISBN: 9781682509067 | \$160 | 2024 | Hardcover |

Publisher: Magnum Publishing LLC



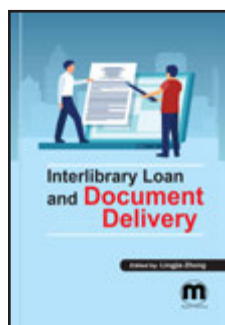
### The Research Library in the 21st Century

Editor: Tadele Amentie

Libraries are 'the laboratories of the humanities' and as such play a crucial role in the lives of humanities students and researchers. Libraries are increasingly seen as players in not just access to learning materials but homes for community-building efforts as well. The role of the library is changing and growing, and programming librarians are on the front lines of that change. This book provides a theoretically informed research guide and draws attention to areas of potential research in Library and Information Science.

Print ISBN: 9781682508596 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Interlibrary Loan and Document Delivery

Editor: Lingjia Zhong

An academic Library identifies, evaluates, procures and makes resources available to their faculty and students (users) for their teaching, learning and research requirement. Very few libraries can hold every journal, book or research papers required to meet the needs of their users and Inter Library Loans are the best way to meet the requirements of permissible laws. Interlibrary Loans (ILL) is a practice between participating libraries who establish agreements with one another to share materials to enhance their collections. This comprehensive book includes an introduction to ILL operations, governing policies, up-to-date information on borrowing and lending, and considerations for libraries.

Print ISBN: 9781682508541 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



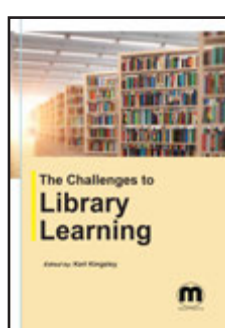
### Planning for Library Services

Editor: Yusaku Ohta

Library planning helps institutions address broader changes in the way information is sought, found, and consumed so the institution can prepare students for success in an increasingly data- and knowledge-dependent society. The book defines the concept and process of strategic planning, explaining its origins in the business world in the 1960s, and adoption by library and information services from the 1970s, with support from professional associations and government bodies in promoting good practice.

Print ISBN: 9781682508534 | \$160 | 2023 | Hardcover |

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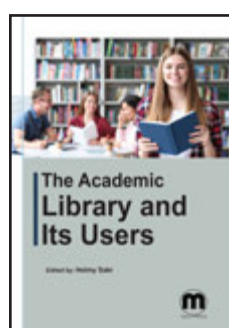
### The Challenges to Library Learning

Editor: Karl Kingsley

The role that education plays in building and developing nations is undebatable. Over time LIS has become recognized as an independent discipline like many others. "It is estimated that today in India approximately one hundred eighty two (182) LIS departments affiliated to universities and colleges are offering LIS education in regular and distance mode. This book presents some of the challenges and concerns for library and information science (LIS) education.

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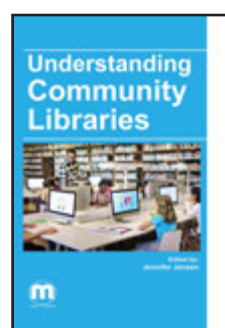
### The Academic Library and Its Users

Editor: Helmy Sakr

Earlier, academic libraries were having print-based reading materials comprising mainly of books and the periodicals. But they have experienced a significant change in their role in relation to information retrieval since the mid-1980s, when the computer was just beginning to make a major impact on how libraries provided information. This book brings the reader up to date on the relationship between academic library services and their users.

Print ISBN: 9781682508572 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Understanding Community Libraries

Editor: Jennifer Jansen

Community libraries are established, owned and managed by and for a specific community, clearly based on community needs. Libraries, for centuries, have served as learning spaces for people of all ages. But, with the second wave of the pandemic, the work of libraries evolved and many started reflecting on their roles in a community. The purpose of this book is to determine norms against which the characteristics of community library services could be tested.

Print ISBN: 9781682508626 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Postcards in the Library

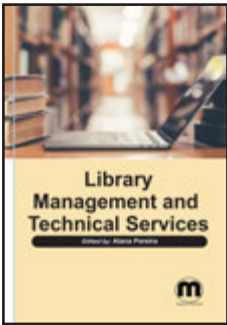
Editor: Yingdang Ren

Countless postcards have been printed over the years and many have probably been lost forever. But many also survive in various collections. Postcards serve many purposes. Postcards provide insight into the time, culture, and habits of the people who lived during the time in which the postcard was manufactured and used. It provides information about consumer habits, communication, and even art. These insights on culture and values make them a vital contributor to printed ephemera and historical research.

This book contains a great deal of information that can be of real value to students and researchers.

Print ISBN: 9781682508589 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Library Management and Technical Services

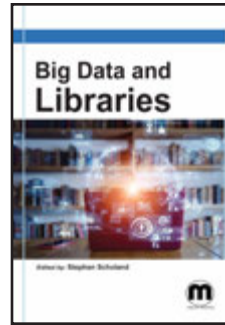
Editor: Alana Pereira

Throughout history, public libraries have been beacons of hope, pillars of education, and gathering places for their communities. Library technical services are responsible for acquiring, organizing, preserving, and providing access to materials in all formats for the library's collections. These activities underline the Department of Library Services' vision to redefine academic librarianship in support of the strategy

and core functions of research, teaching and learning. This book explores the role of technical services functions and organizational structure as forces in the library change process.

Print ISBN: 9781682508558 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



### Big Data and Libraries

Editor: Stephen Scholand

The concept of Big Data has been extensively considered as a technological modernization in Library & Information centres. Big Data contains the answer to several valuable questions related to patterns, trends & associations of user behaviour. It plays a major role in helping libraries to clearly understand the changing user needs, accordingly, reshape & restructure their services & procedures. The primary focus of this book is to explore the concept of Big Data in a library environment, steps to introduce Big

Data in libraries and the use of Big Data in providing library services.

Print ISBN: 9781682508602 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



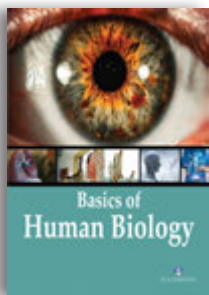
### AI Application in Libraries

Editor: Patrícia Furtado

Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. Artificial intelligence (AI) has shown great promise for applications with large breakthroughs in pattern recognition, knowledge mapping, computer vision, and human-machine interaction. In this book, the key technical features of AI in library application are studied, and its application in library stack building, stack management and information retrieval service is analyzed.

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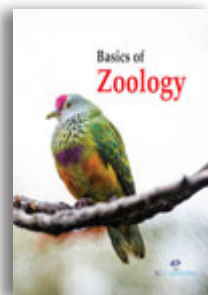
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**Basics of Human Biology**

- Provides an overview of the fundamental principles of human biology.
- Includes various topics such as cells, tissues, organs, and systems, as well as genetics, evolution, and ecology.
- It is an essential resource for anyone interested in understanding the workings of the human body.

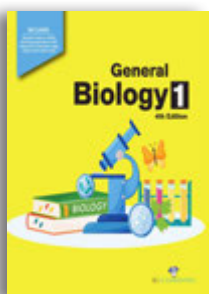
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- A comprehensive introductory textbook on the study of animals.
- Deals with topics such as animal classification, anatomy, physiology, behavior, and ecology.
- With its clear explanations and numerous illustrations, it is an ideal resource for students and anyone interested in the natural world.

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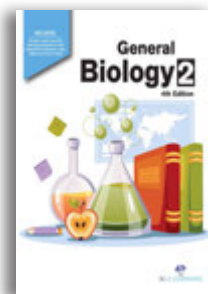


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- Describes the critical roles of systems biology, synthetic biology, computer modelling, and machine learning in microbiome engineering.
- Summarizing aspects of vulnerability, adaptation and amelioration of climate impact, this book provides an important resource for understanding microbes, plants and soil in pursuit of sustainable agriculture and improved food security.

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- The book includes practical examples of 3D bioprinting, a protocol for typical 3D bioprinting.
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## Conservation Biology: Foundations, Concepts, Applications

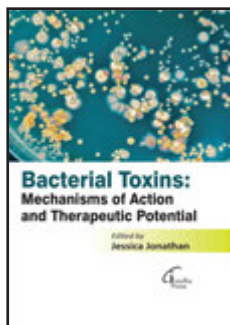
Editor: Winifred Hopkins

Conservation biology focuses on understanding and preserving Earth's biodiversity and ecosystems. It involves studying the distribution and abundance of species, the impacts of human activities on the environment, and the development of strategies to protect endangered species and habitats. Conservation biologists collaborate with policymakers and local communities to implement sustainable practices and ensure the long-

term survival of Earth's biodiversity. This book provides a comprehensive understanding of the principles and practices of conservation biology, including the conservation of biodiversity and ecosystems.

Print ISBN: 9781682519875 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Bacterial Toxins: Mechanisms of Action and Therapeutic Potential

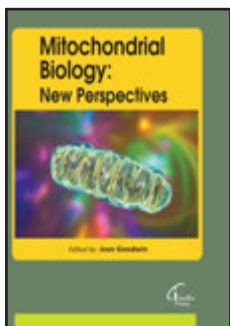
Editor: Jessica Jonathan

Bacterial toxins are substances produced by certain bacteria that can cause harm to host organisms. Research in this area investigates the mechanisms of toxin production, release, and their effects on cellular processes. Understanding bacterial toxins is crucial for developing strategies to diagnose, prevent, and treat bacterial infections. Researchers study the structure, function, and modes of action of bacterial toxins to design tar-

geted therapies, such as vaccines and antitoxins, to neutralize their harmful effects. Additionally, knowledge of bacterial toxins aids in the development of antimicrobial agents and the implementation of measures to control the spread of toxin-producing bacteria in various environments. This book investigates the mechanisms by which bacterial toxins affect host cells and explores their potential applications in therapeutics.

Print ISBN: 9781682519899 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Mitochondrial Biology: New Perspectives

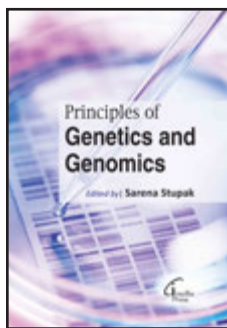
Editor: Jean Goodwin

As an integral part of the cell, mitochondria play a pivotal role in the regulation of energy metabolism, signaling pathways, cell differentiation, cell proliferation and cell death. The discovery of interplay between the nuclear and mitochondrial genes, and various post-transcriptional modifications associated with their products has added excitement in the field. This has led to a better understanding of the basic mitochondrial function in normal and disease

states, and is important for diagnosis and prognosis of a large number of disorders. This book deals with mitochondrial structure, function and biogenesis.

Print ISBN: 9781682519042 | \$160 | 2023 | Hardcover |

Publisher: Intelliz Press LLC



## Principles of Genetics and Genomics

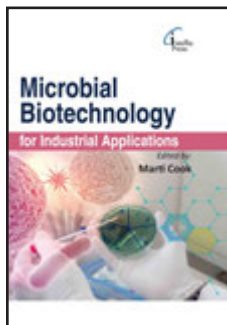
Editor: Sarena Stupak

Genetics is the study of genes, heredity, and genetic variation in living organisms. Genomics, on the other hand, focuses on the analysis of entire genomes, including genes, their interactions, and functions. The principles of genetics and genomics underpin advancements in fields such as personalized medicine, genetic engineering, and the understanding of inherited diseases. This book introduces the fundamental principles of genetics and genomics, exploring the inheritance of traits

and the role of genes in biological processes.

Print ISBN: 9781682519882 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



## Microbial Biotechnology for Industrial Applications

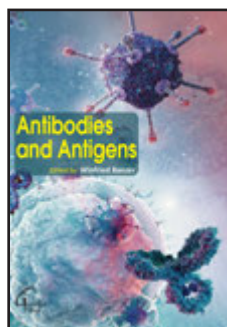
Editor: Marti Cook

Microbial biotechnology offers tremendous potential for industrial applications, enabling the production of biofuels, pharmaceuticals, and bioplastics. Through genetic engineering and fermentation processes, microbes can be optimized to efficiently produce desired compounds, reducing reliance on fossil fuels and minimizing environmental impact. This book explores the use of microorganisms in various industrial processes and

their potential for biotechnological applications.

Print ISBN: 9781682519905 | \$165 | 2024 | Hardcover |

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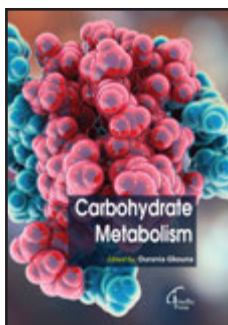
## Antibodies and Antigens

Editor: Winfried Banzer

Antigens and antibodies play vital but distinct roles in illness and disease. One tries to wreak havoc on our health while the other fights to protect it. Simply, antigens can make you sick, and antibodies are how your body defends itself against antigens. The function of antibodies (Abs) involves specific binding to antigens (Ags) and activation of other components of the immune system to fight pathogens. The book deals with the structure, types and functions of antigens and antibodies.

Print ISBN: 9781682519035 | \$160 | 2023 | Hardcover |

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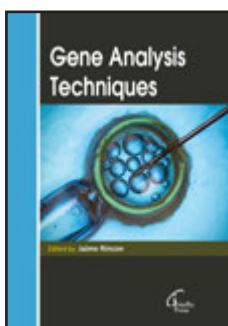
### Carbohydrate Metabolism

Editor: Ourania Gkouna

Carbohydrates are the most abundant macromolecules on our planet, in part because of the plant carbohydrates cellulose and starch, both composed of multiple conjugated glucose molecules. The continued activity of every living cell depends on highly coordinated biochemical reactions, which are fuelled by energy generated through carbohydrate metabolism. Carbohydrates play several crucial roles in the metabolic processes of living organisms. They serve as energy sources and as structural elements in living cells. This book looks at the role of carbohydrates in energy production. Because the monosaccharide glucose is a prominent energy source in almost all living cells, major emphasis is placed on its synthesis, degradation, and storage.

Print ISBN: 9781682518984 | \$160 | 2023 | Hardcover |

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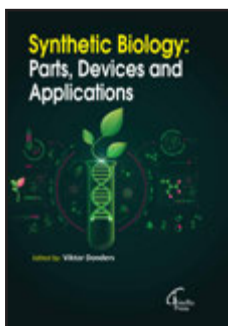
### Gene Analysis Techniques

Editor: Jaime Rincon

Looking at the history in brief, genetics is the term introduced for the study of genes in organisms. Many early discoveries contributed as important milestones to evolve the study of genomes as it is applied today. Since the sequence of the human genome is complete, the main issue is how to understand the information written in the DNA sequence. Despite numerous genome-wide studies that have already been performed, the challenge to determine the function of genes, gene products, and also their interaction is still open. As changes in the human genome are highly likely to cause pathological conditions, functional analysis is vitally important for human health. The present book aims to describe the most frequent and widely-used methods for the comprehensive functional analysis.

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### Synthetic Biology: Parts, Devices and Applications

Editor: Viktor Donders

Synthetic biology enables life technologies to design, synthesize, test and deploy antigens and variants with rapid results, high expression and capacity. It also enables life technologies to develop immunogens engineered for efficacy and high titer and produce rapid assays for purification of the immunogens. Synthetic Biology offers innovative approaches for engineering new biological systems or re-designing existing ones for useful purposes. The book covers the synthesis of DNA and genome engineering and presents a discussion of the parts and devices that control protein expression and activity. This book also offers several important areas of synthetic biology which allow us to read and understand easily.

Print ISBN: 9781682519028 | \$160 | 2023 | Hardcover |

Publisher: Intelliz Press LLC



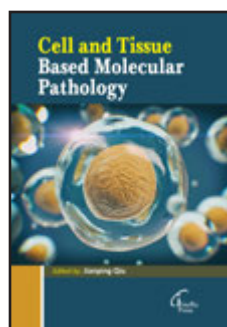
### Cell Transplantation

Editor: Grace C. Lee

Cell transplantation is a sub-class of cell-based therapies, where cells placed on a two-dimensional or in a three-dimensional polymeric scaffold facilitate the repair or regeneration of damaged tissue. Cell transplantation has aimed at providing a continuous supply of the enzyme from the transplanted cells and hence reducing the storage material in the diseased cells. Unfortunately, in some instances organs have irreversible damage. This book covers tremendous strides in cellular transplantation in recent years, leading to accepted practice for the treatment of certain diseases, and use for many others in trial phases.

Print ISBN: 9781682518991 | \$160 | 2023 | Hardcover |

Publisher: Intelliz Press LLC



### Cell and Tissue Based Molecular Pathology

Editor: Jianping Qiu

Molecular pathology is an integral and essential component of diagnostic pathology, especially in the diagnosis of infectious diseases. Molecular pathology has come a long way from basic histopathological examination of tissues to aid diagnosis. This book takes a look on exponential changes in the fields of genetics, molecular, and cell biology which molecular pathology translates in the practice of molecular pathology. The book focuses on the practical utilities of molecular techniques and molecular biomarkers in daily practice of surgical pathology.

Print ISBN: 9781682519011 | \$160 | 2023 | Hardcover |

Publisher: Intelliz Press LLC



## General Biology

**Dr. Ihsan Gadi**

General Biology is a comprehensive text that covers the fundamental principles of biology. It explores various topics including cell biology, genetics, ecology, evolution, and biodiversity. The book is written to provide students with a thorough understanding of the principles that underpin life on Earth. It is an essential resource for anyone looking to develop a strong foundation in the field of biology.

Copyright 2024 | PB 9781774697924 | Price: \$110 | Publisher: Toronto Academic Press

### About the Editor

*“Dr. Ihsan Gadi is a highly experienced editor and researcher in the field of biological sciences. After earning his bachelor’s degree as a Doctor of Veterinary Medicine, he went on to obtain a Master of Science in Molecular Biology and a PhD in a related field. Dr. Gadi is currently working as a research scientist in multiple disciplines, including diabetes-induced cardiovascular and chronic kidney diseases. Dr. Gadi’s extensive research experience has resulted in numerous publications in high-impact international journals in the field of biological sciences. As an editor, he has contributed to the writing and editing of several books, with a particular focus on addressing the needs of students. In addition to his editorial work, Dr. Gadi has several years of teaching experience in the biological sciences. He is passionate about education and has been dedicated to sharing his knowledge with students at all levels of education. Overall, Dr. Gadi’s extensive experience in research, teaching, and editing has made him a highly respected figure in the field of biological sciences. His commitment to excellence and passion for sharing knowledge make him an invaluable contributor to any project he is involved in.”*



## Cell Technology

**Khushboo Chaudhary**

By understanding how cells work in healthy and diseased states, cell biologists working in animal, plant and medical science will be able to develop new vaccines, more effective medicines, plants with improved qualities and through increased knowledge a better understanding of how all living things live. The aim of this book termed “Cell Technology” is to assist students

understand the concepts of this vast field. The topics covered are inclusive but not limited to Cell Biology, Cell Biochemistry, Cell Enzymology, Cell Immunology, Cell Molecular, Cell Genetics, Cell Microbiology, Cell Metabolic, Biotechnology, Plant Biotechnology, Animal Biotechnology, Bioinstrumentation and Techniques.

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### About the Authors

*Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on “Improvement of Phytoremediation efficiency of Fluoride”. She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.*



## Cell Biology

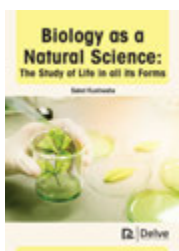
**Dr. Ihsan Gadi**

The Cell Biology textbook covers the fundamental principles and concepts of cellular biology. The book explores the structure, function, and organization of cells, as well as the mechanisms of cell division, differentiation, and communication. It also covers the molecular biology of cells, including DNA replication, transcription, and translation. This book is an invaluable resource for understanding the complexities of cellular biology.

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### About the Editor

*“Dr. Ihsan Gadi is a highly experienced editor and researcher in the field of biological sciences. After earning his bachelor’s degree as a Doctor of Veterinary Medicine, he went on to obtain a Master of Science in Molecular Biology and a PhD in a related field. Dr. Gadi is currently working as a research scientist in multiple disciplines, including diabetes-induced cardiovascular and chronic kidney diseases. Dr. Gadi’s extensive research experience has resulted in numerous publications in high-impact international journals in the field of biological sciences. As an editor, he has contributed to the writing and editing of several books, with a particular focus on addressing the needs of students. In addition to his editorial work, Dr. Gadi has several years of teaching experience in the biological sciences. He is passionate about education and has been dedicated to sharing his knowledge with students at all levels of education. Overall, Dr. Gadi’s extensive experience in research, teaching, and editing has made him a highly respected figure in the field of biological sciences. His commitment to excellence and passion for sharing knowledge make him an invaluable contributor to any project he is involved in.”*



## Biology as a Natural Science: The Study of Life in all Its Forms

**Saket Kushwaha**

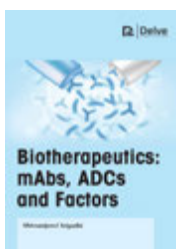
This book takes the readers through introduction to biology. This book sheds light on the concept of the science of life and its chemical basis. This book further explains the cells, genes, heredity, the diversity of life, and nervous system, sensory system, and immune system.

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### About the Author

*Prof. Saket Kushwaha, currently the Vice Chancellor of Rajiv Gandhi University is specialized in resource management and sustainable agriculture development. After his higher studies from Banaras Hindu University, he joined Abubakar Tafawa Balewa University (ATBU), Bauchi, Nigeria in 1993 and taught various courses on Agriculture Economics and Management at undergraduate, post graduate and Ph.D. level. Prof. Kushwaha rose to the rank of Professor at ATBU in the year 1999 and in 2006 he joined Banaras Hindu University (BHU), India as professor in agriculture economics and became the Vice Chancellor of Lalit Narayan Mithila University for one term 2014-2017. He has more than 100 publications in national and international journals of repute, supervised 24 Ph.D. students and authored 17 books / book chapters. Prof Kushwaha is life member of 10 Professional Bodies and sits in the panel of editorial boards. Worked extensively in the field of Zero Emission Research Initiatives (ZERI) propagating the mission of sustainable development under the aegis of “Waste is Wealth” concept. He is also the recipient of 17 national and international awards which includes award from Sulabh International Gold Medal in 2016 for sanitation management. 27 years of teaching, research, extension and community service experience with 23 years in administration. Handled over 10 national and International projects majorly funded by World Banks. Coordinated USAID project on Cowpea Research Support Programme (CRSP) in Nigeria for 10 years from 1996 to 2006. Working with NGOs and mega agriculture farms for Green Farm Planning.*





**Biotherapeutics: mAbs, ADCs and Factors**

**Shivsanjeevi Sripathi**

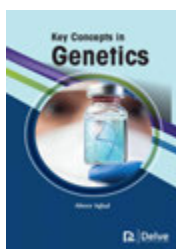
Biotherapeutics refer to therapeutic approaches with the active substance extracted or produced from a biological source. This book is one of the first in compiling select biotherapeutics-based systems viz. mAbs, ADCs, cytokines, growth factors and nucleic acids backed by research studies. This paves the way for part 2 listing the remaining technologies with research-backed data.

This research-backed book presents insights and developments for several issues that plague humanity including case studies of COVID-19.

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**About the Author**

ShivSanjeevi Sripathi completed his Masters in Biotechnology from Mumbai University in 2008. He was awarded for academic excellence in both his Bachelors and Masters for securing second rank in Mumbai University in 2006 and first rank in his college: Kishinchand chellaram College. For his Masters he secured first rank in his college KET's V.G.Vaze College. He qualified CSIR and NET and TOEFL in September 2008. He then worked on a stem cell project at the Specialized Centre for Cell Based Therapy (SCCT), KEM Hospital at Mumbai on a project entitled: "Isolation & detection of stem cells from Human Umbilical cord/ amniotic membrane" following which he worked as Junior Research Fellow at Microbiology & Cell Biology Department, Indian Institute of Science, Bangalore on cloning of cell wall genes and transcription factors in *E.coli* & *M.smegmatis*. As a writer, he has authored and co-authored 35 books on various aspects of biology such as bionics, molecular wires, cloning, hypertension, the epidemics of the 21st century, handling depression, camouflage, hygiene, immunology and many more with international publishers. He loves to read and share on interesting aspects of life sciences in books. In his free time he loves to travel and explore and give talks on spirituality, ancient customs and traditions.



**Key Concepts in Genetics**

**Abeer Iqbal**

In this book, various key terms of Genetics have been explained in detail. Genetics is the scientific study of genes and heredity—of how certain qualities or traits are passed from parents to offspring as a result of changes in DNA sequence. A gene is a segment of DNA that contains instructions for building one or more molecules that help the body work.

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**About the Author**

Abeer Iqbal (M.S Microbiology and Molecular Genetics) is a polished writer with strong scientific knowledge and keen interest in biosciences. She has authored books related to her field and have also been engaged in writing medical blogs/content. She has a passion for learning and writing about scientific advancements and her enthusiasm reflects in her work. She is a nature lover and admires the importance and beauty of little things in life.



**Key Concepts in Life Sciences**

**Akansha Singh**

Lifesciences is a branch of sciences that encompasses the study of all type of living organisms present on earth. This book contains terminologies commonly used in the field of life science. The terminologies are explained in short and concise way to give an understanding to the readers. Through this book author tries to cover major field of life sciences including medicine, science, agriculture, ecology and environment. The Dictionary of life

sciences will be helpful for the students of undergraduate, postgraduate, research scholars, scientists, and industry professionals.

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**About the Editor**

Dr. Akansha Singh is presently working as Project Scientist in Department of Genetics and Plant Breeding, Institute of Agricultural Sciences, Banaras Hindu University, India. She has also worked as Postdoctoral fellow, Mumbai University and as Associate Professor, Department of Genetics and Plant Breeding, College of Agriculture, Parul University, India She has obtained her Ph.D. (Ag) in Genetics and Plant breeding from Banaras Hindu University in the year 2012. She has been Awarded with ICAR, senior research fellowship in 2010 to pursue Ph.D. She has authored numerous national and international publications in journals of repute.



**Introduction to Molecular Science**

**Ageetha Vanamudan**

Chemistry is the science that describes everything that is sensed. This book covers all topics of General Chemistry, beginning with the basics of the atom, molecules, and its behaviour, then the chemical properties of matter, the chemical changes and reactions that take place. The energy changes that are involved in chemical reactions. Various aspects and clear applications of electrochemistry, nuclear chemistry and Environmental

chemistry related topics are also covered in simple language so that students can understand easily. It gives a clear relationship between the raw materials and the products made from various materials like metals, ceramics, glass, polymers etc. Also, the book gives an idea to contemporary issues related to the interface between chemistry and other Sciences. This contents clearly explains the study of natural phenomena through experiments and observations wherein Chemistry, physics, and biology are involved together as molecular science. This book will give in depth information to the readers from the basics to more advanced areas in chemistry.

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**About the Editor**

Dr. Ageetha is presently working as a Deputy Registrar at Team Lease Skills University, Vadodara. She Did her M.Sc & M.Phil in Chemistry from Pondicherry University. She completed her PhD in Analytical Chemistry from M.S.University, Vadodara. Her research interest is on Nanomaterials, catalysis and Environmental chemistry. To add to her credits, she has published 14 articles in various International Journals. She has 12 years of teaching experience. Also she serves as a consultant to various industries.



## Bacteriology and Its Tenets

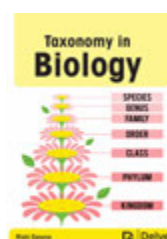
**Rishi Saxena**

This book emphasizes bacteriology and its branches with appropriate examples. First, the principles of bacteriology that guide disease studies are explained. Second, the molecular genetics of bacteria and their role in inducing resistance is discussed. Third, the area of applied bacteriology is clearly defined with applications. Fourth, the importance of probiotic bacteria and its role in managing GIT against diseases is explained in detail. Finally, the concepts associated with veterinary and clinical bacteriology are discussed. This book can be used for students who are pursuing graduate and undergraduate courses.

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### About the Author

Dr Rishi Kumar Saxena presently working as an Associate Professor, Department of Microbiology, Bundelkhand University, Jhansi -284 128, India. Dr Saxena obtained his Ph D in Microbiology from Barkatullah University, Bhopal in 2002. Dr Saxena has been awarded various International and National Fellowships such as UNESCO –American Society of Microbiology, USA Fellowship, Blaustein Post doc Fellowship, Ben Gurion University, Israel at Albert Cratz Institute of Desert Research, DST-Young Scientist-Department of science and Technology, Ministry of Science and Technology, Govt of India under fast track project, Senior Research Fellowship – Council of Scientific and Industrial Research (CSIR), Ministry of Human Resource Development, New Delhi. NESAs has awarded Dr Saxena Distinguish Scientist -2022. Dr Saxena has completed two major projects funded by the Department of Science and Technology (DST), Govt of India under Bundelkhand Networking project for the development of Bundelkhand Region. Dr Saxena, presently working in the area of environmental and agriculture microbial biotechnology. More than 25 research papers have been published in International and National journals of repute. More than five students have been supervised Ph.D. students in his tenure. Dr Saxena has more than 25 years of research and teaching experiences and eight years of administrative experience. Dr Saxena is a member of the various committees of the university.



## Taxonomy in Biology

**Rishi Saxena**

This book gives an introduction to taxonomy - its classification system in biology, and numerical taxonomy - its principles and practice of numerical classification. It illustrates the concepts of rational taxonomy in biology. It addresses the development of a taxonomy of human performance. In addition to this, applications and limitations of Taxonomy has also been discussed.

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### About the Author

Dr Rishi Kumar Saxena presently working as an Associate Professor, Department of Microbiology, Bundelkhand University, Jhansi -284 128, India. Dr Saxena obtained his Ph D in Microbiology from Barkatullah University, Bhopal in 2002. Dr Saxena has been awarded various International and National Fellowships such as UNESCO –American Society of Microbiology, USA Fellowship, Blaustein Post doc Fellowship, Ben Gurion University, Israel at Albert Cratz Institute of Desert Research, DST-Young Scientist-Department of science and Technology, Ministry of Science and Technology, Govt of India under fast track project, Senior Research Fellowship – Council of Scientific and Industrial Research (CSIR), Ministry of Human Resource Development, New Delhi. NESAs has awarded Dr Saxena Distinguish Scientist -2022. Dr Saxena has completed two major projects funded by the Department of Science and Technology (DST), Govt of India under Bundelkhand Networking project for the development of Bundelkhand Region. Dr Saxena, presently working in the area of environmental and agriculture microbial biotechnology. More than 25 research papers have been published in International and National journals of repute. More than five students have been supervised Ph.D. students in his tenure. Dr Saxena has more than 25 years of research and teaching experiences and eight years of administrative experience. Dr Saxena is a member of the various committees of the university.



## Basic Biology

**Khushboo Chaudhary and Pankaj Kumar Saraswat**

As a field of science, biology helps us understand the living world and the ways it's many species (including humans) function, evolve, and interact. Advances in medicine, agriculture, biotechnology, and many other areas of biology have brought improvements in the quality of life. The goal of this book is to assist students understand the concepts of this vast field. The topics covered are inclusive but not limited to biochemistry, biotechnology, the concept of life and living processes, biomolecules, carbohydrates, lipids, amino acids and proteins, vitamins, enzyme, nucleic acids, bioenergetics, enzymology, cell biology, molecular biology, microbiology, cell metabolic, CAM plants, electron transport chain, techniques apply in biochemistry and molecular technology.

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### About the Authors

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

Dr. Pankaj Kumar Saraswat, graduate of R.B.S. College Bichpuri Agra University 1996, completed Masters and Doctorate degree in Soil Science & Agricultural Chemistry from Banaras Hindu University Varanasi in 1999 and 2004 respectively. Dr. Saraswat started his career as a lecturer in Soil Science in 2005 at H.N.B. Garhwal University Srinagar Garhwal and thereafter joined KVK Banasthali Vidyapith Tonk Rajasthan as Subject Matter Specialist (Soil Science). He has worked as a young scientist in SERC-DST New Delhi-funded research project and as P.I. in a DST-Rajasthan-funded research project during 2010-2015 and organized the 04 INSPIRE Internship Science camp under SEAT program of DST New Delhi for 10th pass top 1% students of CBSE & Rajasthan Board. In October 2015 Dr. Saraswat joined ICAR-RC for N.E.H. Region Umiam as Senior Scientist cum Head at KVK Tamenglong Manipur and was promoted to Principal Scientist cum Head in October 2020. He has worked as P.I. and Co-P.I. in 04 Institute and 01 NEC-Govt. of India-funded projects at KVK Tamenglong Manipur. He has 25 research papers, 07 project reports, 05 books, 02 training manuals, 30 popular articles to his credit in the field of agriculture and applied science. Presently He has been working as Principal Scientist cum Head at KVK-National Dairy Research Institute Karnal Haryana for technology assessment and demonstration for wider application with capacity development of farmers, farm women, rural youth, line departments and other stakeholders.



## Agricultural and Food Microbiology

**Khushboo Chaudhary and Pankaj Kumar Saraswat**

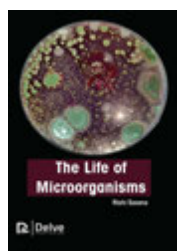
Complex interactions among microbes and agricultural systems must be better understood to facilitate the optimal use of beneficial microorganisms and maximal control of pathogens. Opportunities in microbiology research are the gateway to sustaining and improving agriculture and food production, quality, and safety. This book deals with Agricultural Microbiology, metabolism in bacteria, chemoautotrophy, photo-autotrophy, photo-respiration, beneficial microorganisms in agriculture, plant metabolic pathways, carbohydrate metabolism, carbon reduction in C3 plants, sucrose metabolism, starch metabolism, elements of immunology, industrial microbiology and fermentation technology, principle and working of basic equipment and experimentation.

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### About the Authors

Dr. Khushboo Chaudhary is presently working as a Research Associate in NRCE, Hisar Haryana, India and has one year of teaching experience and seven years of research experience. Previously, she worked on "Improvement of Phytoremediation efficiency of Fluoride". She has published several research papers in international and national journals. She has published five international textbooks. She has got the seven best paper and poster presentation awards from the Indian Society of Genetics and Biotechnology Research and Development and received the president appreciation awards also in the International conference. She has got the best poster award from ISSGPU Central Institute Research on Goats, Makhdoom. She has published several gene banks in NCBI Pubmed. She has also published a research article in the virology journal. She is likely to be a co-author in several of the publications and coauthor in J. Virological Methods.

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## The Life of Microorganisms

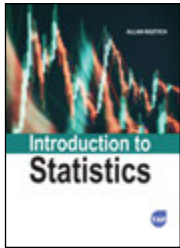
**Rishi Saxena**

This book explains the significance of microbes. It also gives a brief overview on microorganisms for sustainable environment and health. This book sheds light on the adaptation of microbial life to environmental extremes, factors affecting life and death of microorganisms, and recent advancements in microbial diversity.

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### About the Author

Dr Rishi Kumar Saxena presently working as an Associate Professor, Department of Microbiology, Bundelkhand University, Jhansi -284 128, India. Dr Saxena obtained his Ph D in Microbiology from Barkatullah University, Bhopal in 2002. Dr Saxena has been awarded various International and National Fellowships such as UNESCO –American Society of Microbiology, USA Fellowship, Blaustein Post doc Fellowship, Ben Gurion University, Israel at Albert Cratz Institute of Desert Research, DST-Young Scientist-Department of science and Technology, Ministry of Science and Technology, Govt of India under fast track project, Senior Research Fellowship – Council of Scientific and Industrial Research (CSIR), Ministry of Human Resource Development, New Delhi. NESAs has awarded Dr Saxena Distinguish Scientist -2022. Dr Saxena has completed two major projects funded by the Department of Science and Technology (DST), Govt of India under Bundelkhand Networking project for the development of Bundelkhand Region. Dr Saxena, presently working in the area of environmental and agriculture microbial biotechnology. More than 25 research papers have been published in International and National journals of repute. More than five students have been supervised Ph.D. students in his tenure. Dr Saxena has more than 25 years of research and teaching experiences and eight years of administrative experience. Dr Saxena is a member of the various committees of the university.



## Introduction to Statistics

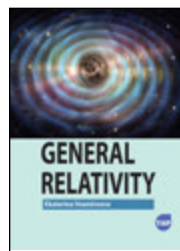
Allan Ngetich

### About the Author

Allan Ngetich is a highly skilled accounting and finance professional with five years of experience in the field. He holds a Master's degree in Accounting and Finance from Jomo Kenyatta University of Agriculture and Technology, where he gained a deep understanding of financial analysis, reporting, and management. Throughout his career, Allan has worked with a diverse range of clients, including small businesses, multinational corporations, and government agencies. He is dedicated to providing high-quality financial services that help his clients achieve their financial goals. Allan is well-versed in a wide range of accounting and finance tools, techniques, and methodologies. He has particular expertise in financial reporting, budgeting and forecasting, and financial analysis. He is also skilled in the use of accounting software, including QuickBooks and Sage. In addition to his technical skills, Allan is a strong communicator and team player. He enjoys collaborating with others to develop effective financial strategies and solutions. He is also committed to staying up-to-date with the latest trends and developments in the field of accounting and finance. Overall, Allan's expertise, experience, and commitment to excellence make him a valuable asset to any organization or project in need of sound financial advice and support.

Introduction to Statistics is a comprehensive textbook that provides a foundational understanding of statistics. It covers topics such as data collection, descriptive statistics, probability, statistical inference, and regression analysis. The book is designed to help students develop the skills and knowledge needed to analyze and interpret data, and to make informed decisions based on statistical analysis. This book is an essential resource for anyone seeking to understand the fundamental principles of statistics.

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## General Relativity

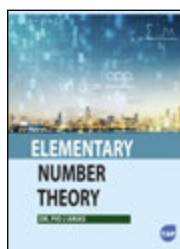
Ekaterina Vsemirnova

### About the Author

Ekaterina Vsemirnova is an exploration geophysicist and numerical modeller with over 10 years of experience in the field. Her research focuses on the use of controlled seismic source and Ground Penetrating Radar (GPR) for investigations of the deep crust, subsurface collapse structures, soil pipe networks, outcrop and subsurface fracture mapping, and more. With specialties in numerical simulations, marine geophysics, seismic tomography, oceanography, seismic oceanography, seismic data processing, scientific programming, computational geoscience, mathematical statistics, fracture network analysis, stochastic analysis, and ground penetrating radar acquisition and processing, Ekaterina Vsemirnova's work is highly method-driven and versatile. Through her research, Ekaterina Vsemirnova has made important contributions to the field of exploration geophysics and numerical modelling, shedding new light on some of our planet's most intriguing and mysterious aspects. Their dedication to pushing the boundaries of exploration geophysics and developing new techniques and tools has earned them a reputation as a valued member of the scientific community. Passionate about science and with a tireless dedication to their work, Ekaterina Vsemirnova is an expert in their field and a true asset to any project they undertake.

This book explores Einstein's theory of general relativity, which revolutionized our understanding of gravity and space-time. The book covers topics such as the curvature of space-time, black holes, and the expanding universe. It also discusses the applications of general relativity in modern physics and cosmology. This book is a must-read for anyone interested in understanding one of the most significant scientific theories of the 20th century.

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## Elementary Number Theory

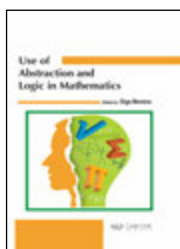
Dr. Pio J. Arias

### About the Author

Pio J. Arias is a prominent physicist with a Ph.D. from the Universidad Simón Bolívar, Venezuela. He is currently an Associate Professor of Physics and Astronomy at the University of Utah, where he researches condensed matter physics, quantum mechanics, and solid-state physics. Dr. Arias has published numerous articles in top-tier scientific journals, and grants from the National Science Foundation and the Department of Energy have supported his research. Dr. Arias began his career as a postdoctoral fellow at the University of Illinois at Urbana-Champaign, where he conducted groundbreaking research on novel materials' electronic and optical properties. He then joined the faculty at the University of Colorado Boulder, where he served as an assistant professor of physics and applied mathematics before joining the faculty at the University of Utah in 2011.

This book explores the basic concepts and properties of numbers. It covers topics such as divisibility, primes and composites, modular arithmetic, Diophantine equations, and number-theoretic functions. The book is designed to introduce readers to the fundamental ideas of number theory and develop their problem-solving skills. This book is an excellent resource for anyone interested in the fascinating world of number theory.

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## Use of Abstraction and Logic in Mathematics

Olga Moreira

### About the Editor

Olga Moreira is a Ph.D. and M.Sc. in Astrophysics and B.Sc. in Physics/Applied Mathematics (Astronomy). She is an experienced technical writer and data analyst. As a graduate student, she held two research grants to carry out her work in Astrophysics at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Space Agency, and the European Southern Observatory). She is currently an independent scientist, peer-reviewer and editor. Her research interest is solar physics, machine learning and artificial neural networks.

"The Use of Abstraction and Logic in Mathematics" is an edited book consisting of 16 contemporaneous open-access articles that are essentially devoted to mathematical logic research, from classical to non-classical logical systems, from algebraic logic to fuzzy logic. The book addresses the following mathematical logic topics: first-order and higher-order logic; as well as infinitary, description, modal; fixed-point, algebraic and fuzzy logic. This book also includes examples of practical applications of logical systems in link prediction and image processing tasks, as well as in the training of neural networks and artificial intelligence. The intended audience of this book is undergraduate and graduate students, as well as junior researchers. Familiarity with first-order and higher-order logics, as well as set theory, and algebra is essential to grasp the concepts and methods described in this book.

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**The use of Mathematical Structures: Modelling Real Phenomena**

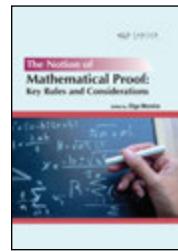
**Olga Moreira**

**About the Editor**

*Olga Moreira is a Ph.D. and M.Sc. in Astrophysics and B.Sc. in Physics/Applied Mathematics (Astronomy). She is an experienced technical writer and data analyst. As a graduate student, she held two research grants to carry out her work in Astrophysics at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Space Agency, and the European Southern Observatory). She is currently an independent scientist, peer-reviewer and editor. Her research interest is solar physics, machine learning and artificial neural networks.*

“The Use Of Mathematical Structures: Modelling Real Phenomena” is an edited book consisting of 16 contemporaneous open-access articles that are devoted to the mathematical modelling of natural phenomena. To summarize, this book is about the use of applied mathematics and mathematical analysis in the context of its applications to real-world problems. It includes a selection of real-world problems in fluid dynamics, mechanical engineering, biology, and biochemistry. The last chapters include the mathematical modelling of the COVID-19 virus. The intended audience of this book is undergraduate and graduate students, as well as junior researchers. The reader must have a good knowledge of ordinary differential equations, boundary value problems, fractional calculus, stability theory, and wavelets in order to fully understand the real-world problems and their mathematical modelling included in this book.

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**The Notion of Mathematical Proof: Key Rules and Considerations**

**Olga Moreira**

**About the Editor**

*Olga Moreira is a Ph.D. and M.Sc. in Astrophysics and B.Sc. in Physics/Applied Mathematics (Astronomy). She is an experienced technical writer and data analyst. As a graduate student, she held two research grants to carry out her work in Astrophysics at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Space Agency, and the European Southern Observatory). She is currently an independent scientist, peer-reviewer and editor. Her research interest is solar physics, machine learning and artificial neural networks.*

“The Notion of Mathematical Proof: Key Rules And Considerations” is an edited book consisting of 16 contemporaneous open-access articles that aim to cover the different aspects of learning and teaching mathematical proof. The first part of this book aims at summing up factors that influence the cognitive development required to successfully understand and solve mathematical proofs. The second part of the book aims to overview implementations of learning methods for constructing and evaluating the validity of mathematical proof, as well as to provide strategies for overcoming possible difficulties in mathematical proof processing. It also includes other studies related to mathematical proof and a motion-based program for improving mathematical reasoning through action. This book is intended to reach out to an academic audience ranging from undergraduate students to junior researchers.

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**Advanced Techniques for Collecting Statistical Data**

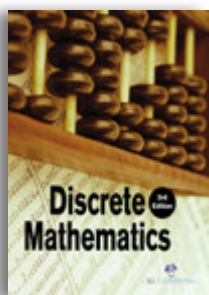
**Olga Moreira**

**About the Editor**

*Olga Moreira is a Ph.D. and M.Sc. in Astrophysics and B.Sc. in Physics/Applied Mathematics (Astronomy). She is an experienced technical writer and data analyst. As a graduate student, she held two research grants to carry out her work in Astrophysics at two of the most renowned European institutions in the fields of Astrophysics and Space Science (the European Space Agency, and the European Southern Observatory). She is currently an independent scientist, peer-reviewer and editor. Her research interest is solar physics, machine learning and artificial neural networks.*

“Advanced Techniques for Collecting Statistical Data” is an edited book consisting of 17 contemporaneous open-access articles focused on data collection methods, from qualitative research techniques to automated data collection systems. The first chapters include a practical guide to designing, sampling, and collecting qualitative research data. The second part of the book is devoted to data mining of information collected from clinical and social studies surveys, as well as from social media. The final chapters reflect on current efforts to optimize and automate data collection procedures. This book also includes new methodologies based on automatic data collection and analysis systems based on smartphone technology and artificial intelligence, as well as their application in clinical research, sociology, stock market prediction and other fields. This book is intended to reach an academic audience ranging from undergraduate students to junior researchers.

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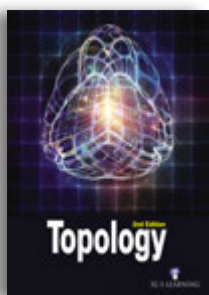


## Discrete Mathematics (3rd Edition)

- In particular, this book is meant to introduce logic, proofs, sets, relations, functions, counting, and probability, with an emphasis on applications in computer science.
- Fully updated throughout, enable the students to develop the requisite computational skills needed in software engineering.
- Some new chapters covering current topics are also added in this revised edition.

EDITION ③

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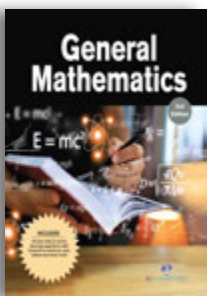


## Topology (2nd Edition)

- An introduction to topological spaces. It deals with constructions like subspaces, product spaces, and quotient spaces, and properties like compactness and connectedness.
- Introduces topology, covering topics fundamental to modern analysis and geometry.
- It also deals with subjects like topological spaces and continuous functions, connectedness, compactness, separation axioms, and selected further topics such as function spaces, metrization theorems, embedding theorems and the fundamental group.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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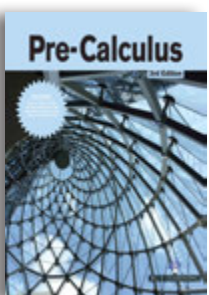


## General Mathematics (3rd Edition) (with Access Code)

- A comprehensive book covering the complete Preliminary mathematics course.
- Equipped with the latest information, this book offers students real advice in navigating the ever-changing academic landscape.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ③

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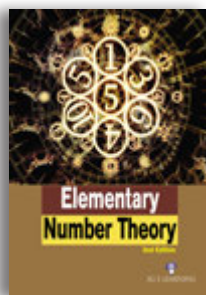


## Pre-Calculus (3rd Edition) (with Access Code)

- The text is intended to revolutionize the way students learn material by incorporating more real-world applications, ongoing review, and innovative technology.
- Fully updated throughout, some new chapters covering current topics are also added in this revised edition.
- This book offers students real advice in navigating the ever-changing academic landscape.

EDITION ③

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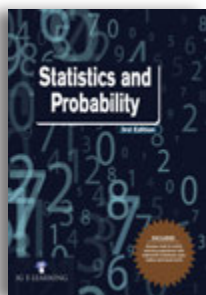


## Elementary Number Theory (2nd Edition)

- Covers the basics of number theory, offers an outstanding introduction to partitions, plus chapters on multiplicativity-divisibility, quadratic congruences, additivity, and more.
- Gives advanced students an introduction to the deep theory of the integers, with focus on the properties of prime numbers, and integer or rational solutions to equations.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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## Statistics and Probability (3rd Edition) (with Access Code)

- This fully revised edition introduces the historical and mathematical basis of statistics and probability as well as their application to everyday situations.
- Fully updated throughout, some new chapters covering current topics are also added in this revised edition.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ③

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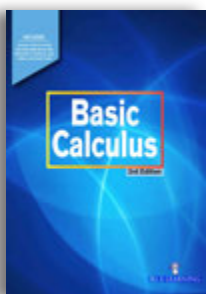


## Business Math (3rd Edition) (with Access Code)

- Providing comprehensive coverage of personal and business-related mathematics, the book is refreshingly different in its approach, and endeavors to motivate student to learn the concept and apply them in real-life situations.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ③

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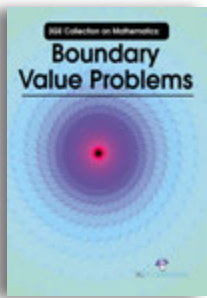


## Basic Calculus (3rd Edition) (with Access Code)

- With this book, students will gain the skills and confidence that make all the difference.
- Provides a new and well-motivated introduction to calculus and analysis, historically significant fundamental areas of mathematics that are widely used in many disciplines.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ③

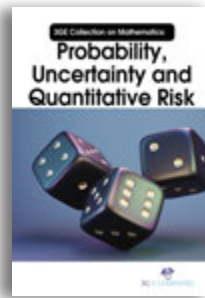
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**3GE Collection on Mathematics: Boundary Value Problems**

- Presents the theory of boundary value problems for analytic functions and its applications to the solution of singular integral equations.
- The book presents the solution of boundary-value problems for basic partial differential equations.

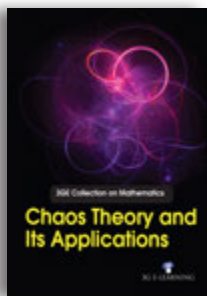
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**3GE Collection on Mathematics: Probability, Uncertainty and Quantitative Risk**

- This book presents a philosophical approach to probability and probabilistic thinking, considering the underpinnings of probabilistic reasoning and modeling.
- This book builds a unifying scientific framework for discussing and evaluating the quality of risk assessments and whether they are fit for purpose.

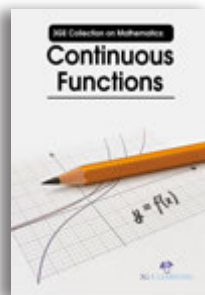
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**3GE Collection on Mathematics: Chaos Theory and Its Applications**

- The book proceeds to give a detailed presentation of the chaotic, rogue, and noisy optical dissipative solitons; parhelic-like circle and chaotic light scattering; and interesting forms of the hyperbolic prism.
- This book provides a comprehensive view of the models and applications of chaos theory in medicine, biology, ecology, economy, electronics, mechanical, and the human sciences.

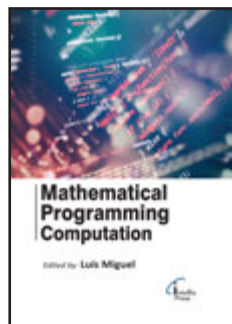
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**3GE Collection on Mathematics: Continuous Functions**

- This is an axiomatic treatment of the properties of continuous multivariable functions and related results from topology.
- This book covers the construction, analysis, and theory of continuous nowhere differentiable functions, comprehensively and accessibly.

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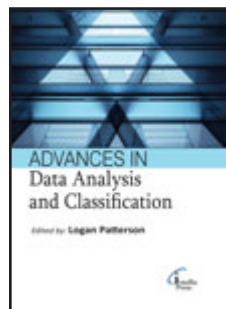
**Mathematical Programming Computation**

Editor: *Luis Miguel*

Mathematical programming computation involves developing algorithms and techniques to solve optimization problems efficiently. By utilizing mathematical models and algorithms, this field enables the optimization of various real-world systems, such as transportation networks, supply chains, and resource allocation, leading to improved efficiency and cost-effectiveness. This book focuses on computational methods and algorithms used in

mathematical programming for solving optimization problems.

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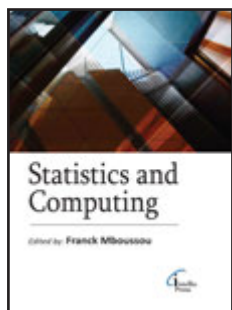


**Advances in Data Analysis and Classification**

Editor: *Logan Patterson*

Advances in data analysis and classification have revolutionized fields such as finance, healthcare, and marketing. By leveraging machine learning algorithms, big data analytics, and pattern recognition techniques, researchers and analysts can extract valuable insights from vast amounts of data, facilitating informed decision-making and predictive modeling. This book highlights the latest advancements in analyzing and classifying data using various statistical and machine learning techniques.

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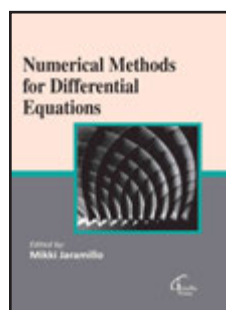


**Statistics and Computing**

Editor: *Franck Mboussou*

The intersection of statistics and computing has led to significant advancements in data analysis and inference. With the advent of powerful computational tools and algorithms, statisticians can tackle complex problems, perform simulations, and conduct large-scale data analyses, enabling the extraction of meaningful patterns, correlations, and statistical models. This book discusses the intersection of statistical methods and computational tools for data analysis and inference.

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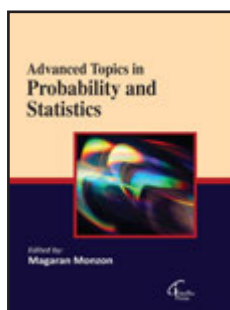


**Numerical Methods for Differential Equations**

Editor: *Mikki Jaramillo*

Numerical methods for differential equations provide efficient computational techniques to solve mathematical models describing physical phenomena. By discretizing continuous equations and approximating their solutions, researchers can simulate and analyze a wide range of phenomena, including fluid dynamics, heat transfer, and quantum mechanics. This book presents numerical techniques for solving differential equations, a fundamental topic in applied mathematics.

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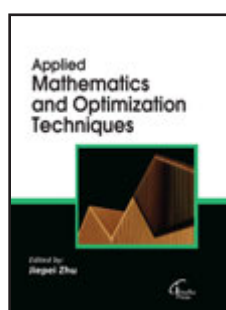
## Advanced Topics in Probability and Statistics

*Editor: Magaran Monzon*

Probability and statistics deals with complex areas such as stochastic processes, Bayesian inference, and multivariate analysis. These topics allow for a deeper understanding of random phenomena, uncertainty modeling, and the development of sophisticated statistical models that capture intricate relationships within data. This book focuses on advanced concepts and theories in probability and statistics, covering topics beyond the basics.

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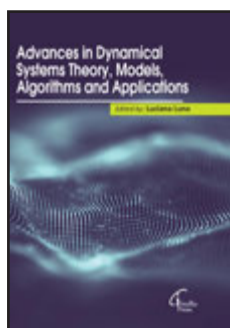
## Applied Mathematics and Optimization Techniques

*Editor: Jiepei Zhu*

Applied mathematics and optimization techniques find applications in diverse fields, including engineering, finance, and operations research. By formulating problems mathematically and applying optimization algorithms, researchers can optimize processes, minimize costs, and maximize efficiency, ultimately leading to improved outcomes and resource utilization. This book explores the application of mathematical methods and optimization techniques to solve real-world problems.

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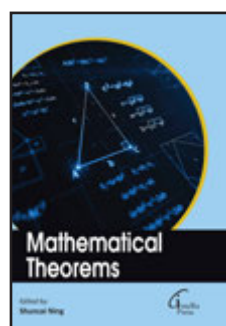
## Advances in Dynamical Systems Theory, Models, Algorithms and Applications

*Editor: Luciana Luna*

A dynamical system is any system, man-made, physical, or biological, that changes in time. This volume will cover different fields of system identification, system design and system engineering. The book covers ordinary differential equations, partial differential equations, spectral theory of differential operators, integral and integral differential equations, stochastic differential equations, difference equations, and their applications in control theory, dynamic equations on time scales, mathematical control theory.

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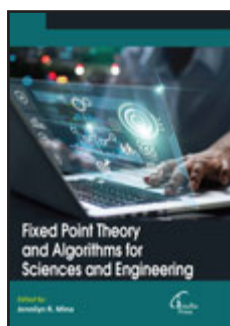
## Mathematical Theorems

*Editor: Shuncai Ning*

Proofs are important not just for developing critical reasoning, and not simply for avoiding errors, but for progress in mathematics itself. Theorems are of significance and are considered as absolute truths. Theorems not only help to solve mathematical problems easily but their proofs also help to develop a deeper understanding of the underlying concepts. The main content of this book is related to construction of analytical solutions of differential equations and systems of mathematical physics, to development of analytical methods for solving boundary value problems for such equations.

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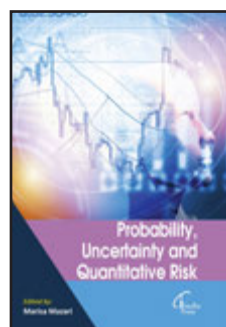
## Fixed Point Theory and Algorithms for Sciences and Engineering

*Editor: Jennilyn R. Mina*

Numerous problems in science and engineering defined by nonlinear functional equations can be solved by reducing them to an equivalent fixed-point problem. Fixed point theorems are developed for single-valued or set-valued mappings of abstract metric spaces. In particular, the fixed-point theorems for set-valued mappings are rather advantageous in optimal control theory and have been frequently used to solve many problems in economics and game theory. This book provides a clear exposition of the flourishing field of fixed point theory.

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## Probability, Uncertainty and Quantitative Risk

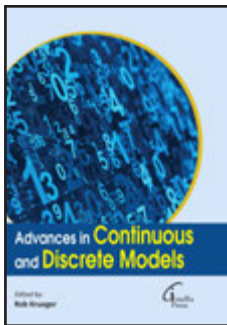
*Editor: Marisa Mazari*

This book aims to cover significant developments in modern probability theory, its relation to stochastic analysis and statistics, stochastic processes, their dynamics and control, as well as applications in different domains. The fundamental problems related to uncertainty in quantitative risk analyses, used in decision making in safety-related issues are presented and discussed, together with the different types of uncertainty that are introduced in the various stages of an analysis.

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**Advances in Continuous and Discrete Models**

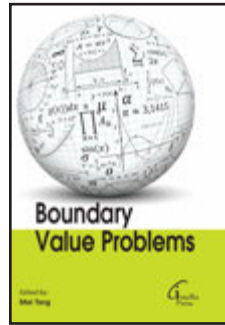
*Editor: Rob Krueger*

The growing influence of digital computing in systems modelling and simulation is leading to an increase in the use of discrete mathematical structures for describing models. While it is generally recognized that discrete methods and classical continuous methods both provide valuable tools for modelling, strong biases exist which depend on the modelling techniques that are traditional within specific disciplines. This book presents a

comprehensive, and up-to-date treatment of linear, nonlinear, and discrete/combinatorial network optimization problems, their applications, and their analytical and algorithmic methodology.

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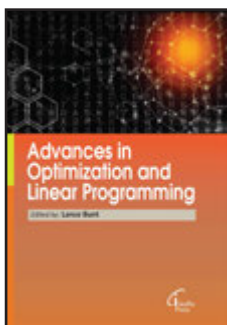
**Boundary Value Problems**

*Editor: Mei Tang*

Boundary-value problems form a very important chapter of the theory of differential equations. It is commonly known that they occur in modelling of various phenomena in applied sciences. This book is intended to cover nonlinear boundary-value problems in a broad sense, and will cover results on ordinary and functional differential equations, with a special emphasis on new and original methods for the analysis of various boundary-value problems, including those specific to equations with argument deviations.

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**Advances in Optimization and Linear Programming**

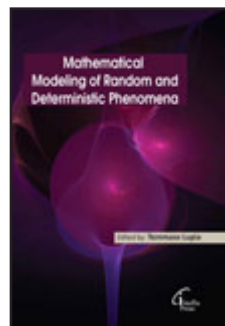
*Editor: Lance Bunt*

Linear programming (LP) is one of the simplest ways to perform optimization. It helps you solve some very complex optimization problems by making a few simplifying assumptions. Decision-making problems may be classified into two categories: deterministic and probabilistic decision models. In deterministic models good decisions bring about good outcomes. This depends largely on how influential the uncontrollable factors are in determining

the outcome of a decision, and how much information the decision-maker has in predicting these factors. This book provides the information needed to understand the simplex method, dual simplex method, and more for solving linear programming problems.

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**Publisher: Intelliz Press LLC**



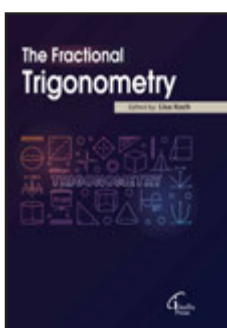
**Mathematical Modeling of Random and Deterministic Phenomena**

*Editor: Tommaso Lupia*

Mathematical modeling is the art of translating problems from an application area into tractable mathematical formulations whose theoretical and numerical analysis provides insight, answers, and guidance useful for the originating application. This book addresses the construction, analysis, and interpretation of mathematical models that shed light on significant problems in the physical sciences. This book is a valuable resource for students of engineering and management science. Engineers will also find this book useful.

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**Publisher: Intelliz Press LLC**



**The Fractional Trigonometry**

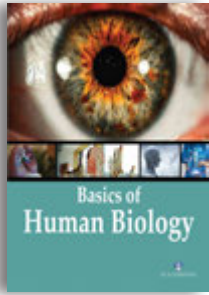
*Editor: Lisa Koch*

The application of the traditional trigonometry to analysis as well as engineering and science goes well beyond the calculation of triangles and triangulation. The applications include Fourier analysis, spectral analysis, solutions to ordinary and partial differential equations and more. The trigonometric functions are found in nearly every branch of mathematics. The book is suitable for a typical introductory algebra course, and was developed to be used flexibly. This book offers insight into the fundamentals of fractional calculus.

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# Nursing



## Nutrition and Dietetics for Nurses

- Provides nurses with the necessary knowledge and skills to support their patients' nutritional needs.
- Covers topics such as the role of nutrition in disease prevention, therapeutic diets, and the assessment of nutritional status.
- It is an essential resource for any nurse looking to improve the overall health and well-being of their patients.

ISBN: 9781984685728 | Price: \$95 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Midwifery and Obstetrics Nursing

- A comprehensive guide for nurses who specialize in women's health.
- Includes prenatal care, labor and delivery, postpartum care, and newborn care.
- The book provides evidence-based practices and practical tips to help nurses provide safe and effective care to their patients.

ISBN: 9781984685162 | Price: \$95 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Foundations of Nursing Practice

- A comprehensive textbook that provides a solid introduction to the fundamental concepts and principles of nursing.
- Covers a wide range of topics including nursing ethics, communication, health assessment, and medication administration.
- This book is an essential resource for students pursuing a career in nursing or for anyone interested in understanding the basics of nursing practice.

ISBN: 9781984685186 | Price: \$95 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Cardiovascular Care

- Covers a wide range of topics related to cardiovascular health, disease prevention, and treatment.
- Provides a detailed overview of various cardiovascular conditions, including hypertension, coronary artery disease, heart failure, and arrhythmias.
- It also includes guidelines on cardiovascular care, making it a valuable resource for healthcare professionals and patients alike.

ISBN: 9781984685209 | Price: \$85 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Maternal and Child Health Nursing

- A comprehensive guide that focuses on the care of women and children.
- Focuses on prenatal care, labor and delivery, postpartum care, and pediatric nursing.
- This book is an essential resource for healthcare professionals who provide care for mothers and children.

ISBN: 9781984685155 | Price: \$95 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Principles of Nursing Services, Administration, and Supervision

- A comprehensive guidebook for healthcare professionals seeking to improve their skills in managing nursing services.
- Focused on leadership, budgeting, staffing, and quality assurance, providing practical tips and case studies to illustrate key concepts.
- A valuable resource for anyone involved in the administration or supervision of nursing services.

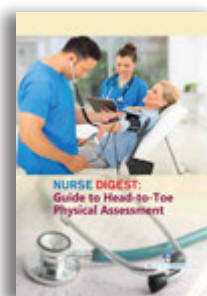
ISBN: 9781984685179 | Price: \$95 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Introduction to Health Informatics Within Nursing

- A comprehensive guide that introduces nurses to the basics of health informatics.
- Covers electronic health records, health information exchange, and clinical decision support systems.
- With its practical approach and real-world examples, this book is an essential resource for nurses seeking to enhance their understanding of health informatics.

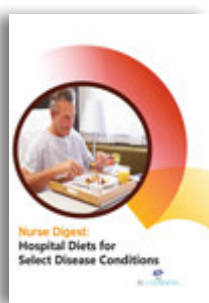
ISBN: 9781984685193 | Price: \$95 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Guide to Head-to-Toe Physical Assessment

- Covers everything from patient history and vital signs to inspection, palpation, and auscultation of various body systems.
- With clear illustrations and step-by-step instructions, it is an essential tool for any practitioner who wants to improve their clinical skills.
- A comprehensive resource for healthcare professionals to learn how to conduct a thorough physical examination.

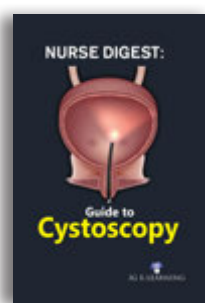
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## Nurse Digest: Hospital Diets for Select Disease Conditions

- A comprehensive guide to the dietary management of various health conditions.
- Provides practical advice on how to tailor diets for patients with specific medical needs, such as diabetes, heart disease, and cancer.
- It is an essential resource for healthcare professionals and individuals looking to improve their health through proper nutrition.

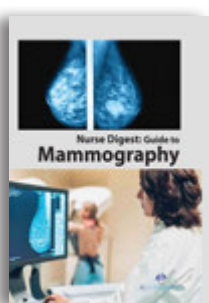
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## Nurse Digest: Guide to Cystoscopy

- Provides in-depth knowledge about the diagnostic procedure of cystoscopy.
- Covers the anatomy of the urinary tract, equipment used for the procedure, and its indications and contraindications.
- The book is an essential guide for urologists, nurses, and medical students interested in the field.

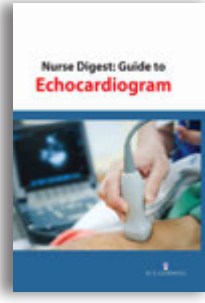
ISBN: 9781984685230 | Price: \$85 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Guide to Mammography

- A comprehensive resource for healthcare professionals who perform or interpret mammograms.
- Deals with the latest techniques, guidelines, and quality control measures for mammography.
- The book also includes case studies and images to help readers improve their skills and knowledge in this critical area of women's health.

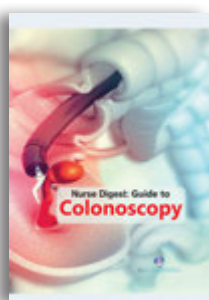
ISBN: 9781984685247 | Price: \$85 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Guide to Echocardiogram

- A comprehensive resource for healthcare professionals involved in cardiac imaging.
- Explores the fundamentals of echocardiography, image acquisition techniques, and interpretation of findings.
- This book is an invaluable tool for anyone seeking to improve their understanding of echocardiography.

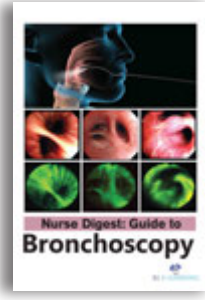
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## Nurse Digest: Guide to Colonoscopy

- A comprehensive resource for anyone undergoing or preparing for a colonoscopy.
- Includes everything from what to expect during the procedure to how to prepare for it beforehand.
- The book also includes helpful tips for after the procedure to ensure a smooth recovery.

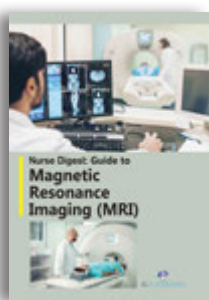
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## Nurse Digest: Guide to Bronchoscopy

- Provides an in-depth understanding of bronchoscopy, a medical procedure used to examine the lungs and airways.
- Covers a wide range of topics, from basic anatomy and physiology to advanced techniques and equipment.
- It is an essential resource for pulmonologists, respiratory therapists, and other healthcare professionals involved in the diagnosis and treatment of lung diseases.

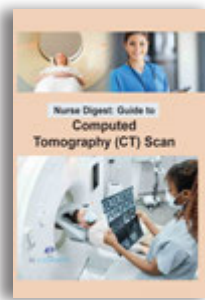
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## Nurse Digest: Guide to Magnetic Resonance Imaging (MRI)

- Provides detailed information about the principles, techniques, and applications of MRI.
- Covers the fundamental physics of MRI, the latest imaging sequences and protocols, and the interpretation of MRI findings in various clinical contexts.
- An essential resource for radiologists, medical physicists, and other healthcare professionals who use MRI in their practice.

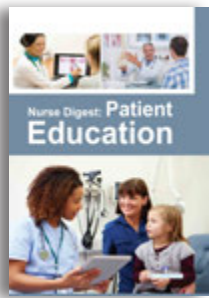
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## Nurse Digest: Guide to Computed Tomography (CT) Scan

- An informative resource for understanding the basics of CT scanning.
- It covers various aspects of CT, including its history, equipment, image acquisition, and interpretation.
- The book also provides insights into the clinical applications of CT and its role in modern healthcare.

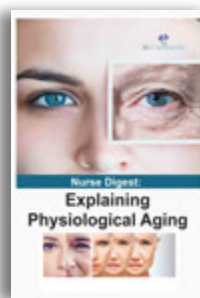
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## Nurse Digest: Patient Education

- Provides essential information for healthcare professionals on how to effectively educate their patients.
- Covers a wide range of topics, from communication strategies to developing patient-centered education plans.
- It is an invaluable resource for anyone working in the healthcare field.

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## Nurse Digest: Explaining Physiological Aging

- A comprehensive guide to the mechanisms behind the aging process at the cellular and molecular levels.
- Provides insight into the various theories of aging, including the oxidative stress theory and the telomere shortening theory.
- It also covers the impact of lifestyle factors such as diet, exercise, and stress on the aging process.

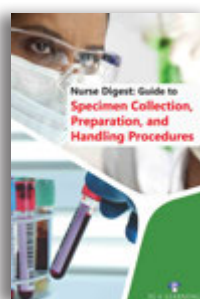
ISBN: 9781984685315 | Price: \$85 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Intravenous (IV) Therapy Technique

- Explores the intricacies of administering IV therapy.
- Covers various aspects of IV therapy, including anatomy, equipment, and techniques.
- With detailed instructions and illustrations, it serves as a valuable resource for both novice and experienced practitioners.

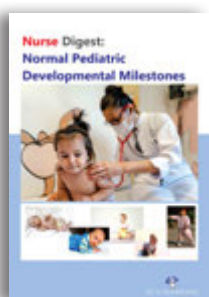
ISBN: 9781984685322 | Price: \$85 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Guide to Specimen Collection, Preparation, and Handling Procedures

- An essential guide for medical professionals involved in diagnostic testing.
- Provides detailed instructions on how to collect and handle various types of specimens, ensuring accuracy and reliability of test results.
- The book also covers important topics such as safety protocols and quality control measures.

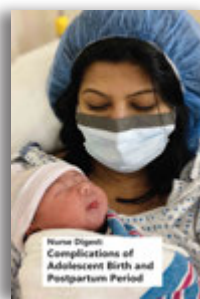
ISBN: 9781984685339 | Price: \$85 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Nurse Digest: Normal Pediatric Developmental Milestones

- A comprehensive guide for parents and healthcare providers to understand the developmental milestones of children from birth to adolescence.
- The book covers various aspects of physical, cognitive, social, and emotional development, providing clear descriptions of what to expect at each stage.
- With practical tips and insights, this book is an invaluable resource for anyone involved in caring for children.

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## Nurse Digest: Complications of Adolescent Birth and Postpartum Period

- Examines the unique challenges faced by adolescent mothers.
- The book explores the physical, emotional, and social issues that can arise during pregnancy and the postpartum period in young mothers.
- It also provides evidence-based recommendations for healthcare professionals working with this population.

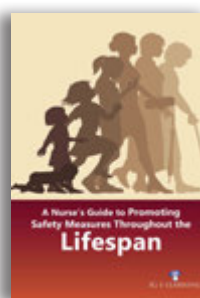
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## Nursing Health Assessment

- A comprehensive guidebook for healthcare professionals to conduct accurate patient assessments.
- Covers all aspects of health assessment, including the physical, psychosocial, and environmental factors.
- With its practical approach and detailed illustrations, this book is an invaluable resource for nursing students and practitioners alike.

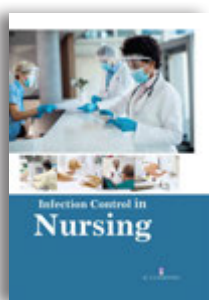
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## A Nurse's Guide to Promoting Safety Measures Throughout the Lifespan

- A comprehensive resource for nurses seeking to enhance patient safety.
- It covers a wide range of safety topics, from injury prevention to infection control.
- With practical advice and evidence-based strategies, this book is an invaluable tool for any nurse committed to promoting safety throughout the lifespan.

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## Infection Control in Nursing

- A comprehensive guide for nurses and health-care professionals to prevent and control the spread of infections in clinical settings.
- It covers various topics such as hand hygiene, personal protective equipment, sterilization, and disinfection.
- The book emphasizes the importance of infection control practices in promoting patient safety and reducing healthcare-associated infections.

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## Fundamentals of Nursing

**Cally L. Davis**

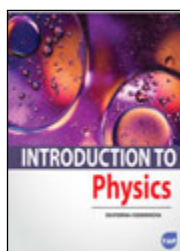
### About the Author

*Cally is a Licensed Practical Nurse graduate from Wayne County Schools Career Center in Smithville, Ohio. She has 14 years of experience as an LPN for long term care facilities and outpatient surgical offices where she served as a charge nurse/office supervisor for up to six*

*Certified Nursing Assistants and Medical Assistants. She is currently serving as an LPN at an elementary school enrolling approximately 500 students grades Pre-kindergarten to 5th grade.*

This text covers the basic principles and practices of nursing. It explores various topics such as patient care, nursing theories, communication, pharmacology, and ethical and legal issues in nursing. The book is written to provide students with a solid foundation in the fundamentals of nursing, and to help them develop the knowledge and skills necessary for a successful nursing career. With its emphasis on evidence-based practice and patient-centered care, this book is an essential resource for nursing students and professionals alike.

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## Introduction to Physics

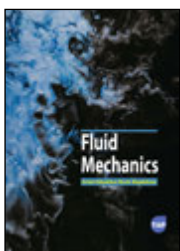
**Ekaterina Vsemirnova**

### About the Author

Ekaterina Vsemirnova is an exploration geophysicist and numerical modeller with over 10 years of experience in the field. Her research focuses on the use of controlled seismic source and Ground Penetrating Radar (GPR) for investigations of the deep crust, subsurface collapse structures, soil pipe networks, outcrop and subsurface fracture mapping, and more. With specialties in numerical simulations, marine geophysics, seismic tomography, oceanography, seismic oceanography, seismic data processing, scientific programming, computational geoscience, mathematical statistics, fracture network analysis, stochastic analysis, and ground penetrating radar acquisition and processing, Ekaterina Vsemirnova's work is highly method-driven and versatile. Through her research, Ekaterina Vsemirnova has made important contributions to the field of exploration geophysics and numerical modelling, shedding new light on some of our planet's most intriguing and mysterious aspects. Their dedication to pushing the boundaries of exploration geophysics and developing new techniques and tools has earned them a reputation as a valued member of the scientific community. Passionate about science and with a tireless dedication to their work, Ekaterina Vsemirnova is an expert in their field and a true asset to any project they undertake.

This text provides an overview of the fundamental concepts and principles of physics. It covers topics such as mechanics, electromagnetism, thermodynamics, and modern physics. The book is designed to help students develop a deep understanding of the physical world and to prepare them for more advanced studies in physics. It also includes numerous examples, illustrations, and practice problems to help students master the material.

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## Fluid Mechanics

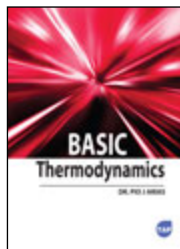
**Artem Shlyakhov Marie-Magdeleine**

### About the Author

Artem Marie-Magdeleine is a Chartered Mechanical Ph.D. engineer with 8 years of experience in turbomachinery fluid mechanics, CFD, CAD, and technical software development. He's authored five utility patents and two scientific publications, making significant contributions to the industry. Beyond his technical expertise, Artem Marie-Magdeleine is a linguist, fluent in English, French, Russian, and German, allowing him to work with diverse teams and collaborate with professionals from different parts of the world. Driven, ambitious, and committed to achieving his goals, Artem Marie-Magdeleine inspires many aspiring engineers and professionals. He believes in the power of education and continues to explore new fields of study to expand his knowledge and expertise. In short, Artem Marie-Magdeleine is a highly accomplished mechanical engineer with a remarkable track record of accomplishments. His work is a testament to his dedication, hard work, and passion for engineering.

This text deals with the behavior of fluids, both liquids and gases, and their interaction with solid objects. The book covers topics such as fluid statics, fluid dynamics, Bernoulli's equation, flow measurement, and viscosity. The book is designed to provide students with a thorough understanding of the principles of fluid mechanics and their applications in engineering and science. This book is an essential resource for understanding the behavior of fluids and their impact on the world around us.

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## Basic Thermodynamics

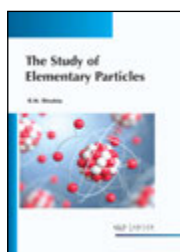
**Dr. Pio J Arias**

### About the Author

Pio J. Arias is a prominent physicist with a Ph.D. from the Universidad Simón Bolívar, Venezuela. He is currently an Associate Professor of Physics and Astronomy at the University of Utah, where he researches condensed matter physics, quantum mechanics, and solid-state physics. Dr. Arias has published numerous articles in top-tier scientific journals, and grants from the National Science Foundation and the Department of Energy have supported his research. Dr. Arias began his career as a postdoctoral fellow at the University of Illinois at Urbana-Champaign, where he conducted groundbreaking research on novel materials' electronic and optical properties. He then joined the faculty at the University of Colorado Boulder, where he served as an assistant professor of physics and applied mathematics before joining the faculty at the University of Utah in 2011.

This book provides a comprehensive introduction to the principles of thermodynamics, including the laws of thermodynamics, thermodynamic processes, and thermodynamic cycles. The book covers topics such as thermodynamic systems, properties of pure substances, heat transfer, and power cycles. It is designed to help students and professionals in the fields of engineering and physics develop a strong understanding of the fundamental principles of thermodynamics. With clear explanations and numerous examples, this book is an essential resource for anyone studying or working in the field of thermodynamics.

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## The Study of Elementary Particles

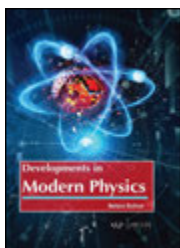
**S.N. Shukla**

### About the Author

Dr. Sachchidanand Shukla, is presently working as Professor, Department of Physics & Electronics, Dr. RamManohar Lohia Avadh University, Ayodhya, UP, India. He did his Masters in Physics (Electronics) in 1988 and Ph.D. in 1992 from the same university. Dr. Shukla holds 27 years' experience of teaching M.Sc. (Physics) and M.Sc. (Electronics) students and 3 years experience of teaching B.Tech., MCA and B.Sc. (Electronics) students. He has published 85 research papers in peer-reviewed/indexed journals of International/National repute & conference proceedings and 02 books. In his supervision 14 research scholars have been awarded Ph.D. degree. In addition to it he is the recipient of Best Scientist National Award (2018) of IRDP Group of Journals, Chennai and Maatee Ratan Samman (2017). He has also been selected as Fellow of IACSIT (International Association of Computer Science and Information Technology, Singapore) and Associate Fellow of IAPS (International Academy of Physical Sciences) in 2018. In view of Dr. Shukla's academic achievements his employer institution, Dr. RamManohar Lohia Avadh University, has conferred upon him the 'Certificate of Appreciation' in 2018. Besides having a wide exposure to various key positions of University administration like Pro Vice Chancellor, Registrar, Director College Development Council (CDC), Coordinator UGC and RUSA, Head of Physics Department etc, Dr. Shukla has membership of 08 academic bodies of international repute. To name a few are ISCA (The Indian Science Congress Association, Kolkata, India), IETE (The Institution of Electronics and Telecommunication Engineers, New Delhi, India), NASI (The National Academy of Sciences, India, Allahabad, India), IAPS (International Academy of Physical Sciences, Allahabad, India) and SCIEI (Science and Engineering Institute, Hong Kong, SAR of China).

From the inception of particle physics during the 1930s up to the recent 21st century drives, the inventive concepts and technologies of molecular physics have infiltrated the mainstream society to change how we live. There is a long and developing list of viable applications with regards to particle physics. Today, every significant medical center globally uses accelerators generating x-rays, neutrons, protons, and heavy ions for diagnosis and cure of illnesses. It is believed that there are more than 7,000 active medical linacs across the planet that have treated around 30 million patients. Likewise, biomedical researchers use molecular physics advances to unravel the design of proteins, data that is critical to understanding biological cycles and treating illness. A better comprehension of protein design allows for the improvement of viable medications, for example, Kaletra, among the globe's most-prescribed medication to combat AIDS. The future for particle physics is bright and still more is yet to be discovered.

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## Developments in Modern Physics

**Nelson Bolívar**

### About the Author

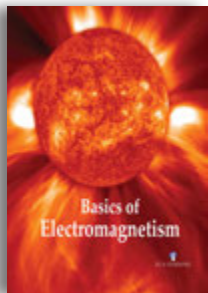
*Nelson Bolívar is currently a Physics Professor in the Physics Department at the Universidad Central de Venezuela, where he has been teaching since 2007. His interests include quantum field theory applied in condensed matter. He obtained his PhD in physics from the Université de Lorraine (France) in 2014 in a joint PhD with the Universidad Central de Venezuela. His BSc in physics is from the Universidad Central de Venezuela.*

In the 20th century — the age of “modern physics” — our view of the physical universe underwent a revolution. This book *Developments in Modern Physics* presents the fundamentals and frontiers of contemporary physics to the most gifted pupils. Typically, students must take multiple courses to cover the majority of these topics. The purpose is to give them a sense of where they’re heading and how everything fits together as they go. Quantum mechanics, nuclear physics, particle physics, special relativity, condensed-matter physics, relativistic quantum mechanics, and general relativity are the main topics covered in this book. The objective is to address these topics in considerable depth such that students “get” them and have a basic understanding of them. The book presupposes a one-year calculus-based introductory physics course and a one-year calculus course. Several appendices educate the reader on any additional mathematics that may be required. Numerous problems are presented, the majority of which will lead dedicated readers as far as they wish in modern physics.

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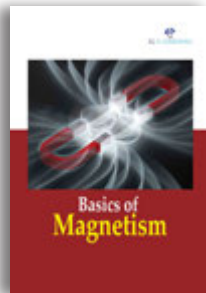
# Physics



## Basics of Electromagnetism

- A comprehensive textbook that explores the fundamental principles of electricity and magnetism.
- The book covers topics ranging from electric charge and field to magnetic flux and induction.
- With clear explanations and numerous examples, it is a great resource for students and professionals alike.

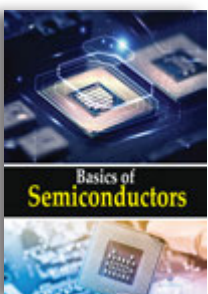
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## Basics of Magnetism

- A comprehensive introduction to the fundamentals of magnetism.
- The book covers topics such as magnetic fields, magnetic materials, and electromagnetic induction, among others.
- With clear explanations and examples, it is an essential resource for anyone interested in understanding the principles of magnetism.

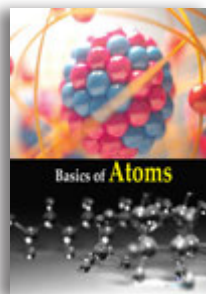
ISBN: 9781984685643 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Basics of Semiconductors

- An introductory book that explores the fundamental principles of semiconductors.
- It covers topics such as crystal structures, doping, carrier transport, and device physics.
- The book is a valuable resource for students and professionals in the fields of electrical engineering and materials science.

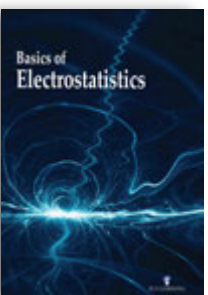
ISBN: 9781984685650 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Basics of Atoms

- A concise and accessible guide to the fundamental concepts of atomic physics.
- Contains topics such as atomic structure, quantum mechanics, and spectroscopy in a clear and concise manner.
- This book is a great introduction to the fascinating world of atoms.

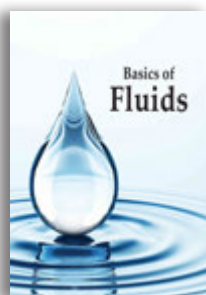
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## Basics of Electrostatics

- A comprehensive guide to the fundamental principles of electrostatics.
- Includes a range of topics, from Coulomb's law and electric fields to conductors and dielectrics.
- With clear explanations and numerous examples, this book is an essential resource for anyone interested in understanding the behavior of electric charges and fields.

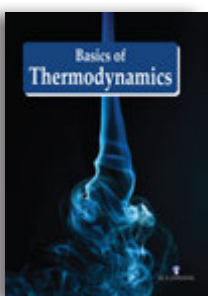
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## Basics of Fluids

- A comprehensive introductory textbook on the fundamental principles of fluid mechanics.
- Focuses on topics such as fluid statics, fluid kinematics, and fluid dynamics, with a focus on understanding the behavior of fluids in different situations.
- This book is a valuable resource for students and professionals in engineering and related fields.

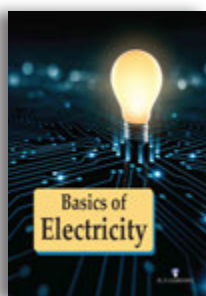
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## Basics of Thermodynamics

- A fundamental textbook that covers the principles and concepts of thermodynamics.
- It is a comprehensive guide for students and professionals in the fields of physics, chemistry, and engineering.
- Presents a clear and concise introduction to the laws of thermodynamics and their applications in various systems.

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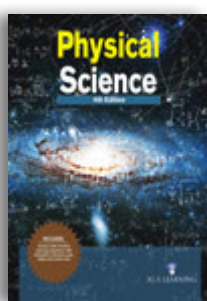


## Basics of Electricity

- A comprehensive introduction to the principles and applications of electrical systems.
- Covers essential topics such as circuits, voltage, current, resistance, and power, and provides practical examples and exercises to reinforce learning.
- A valuable resource for understanding the fundamentals of electricity.

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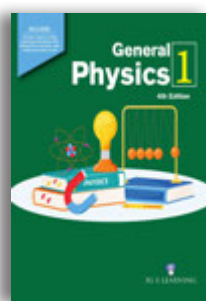


EDITION ④

### Physical Science (4th Edition) (with Access code)

- Provides students complete coverage of the physical sciences with a level of explanation and detail appropriate for all students.
- Fully updated throughout, some new chapters covering current topics are also added in this 4th edition.
- This updated edition offers students real advice in navigating the ever-changing academic background.

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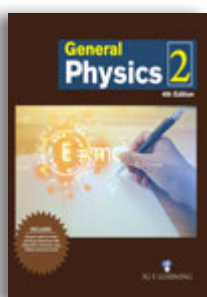


EDITION ④

### General Physics 1 (4th Edition) (with Access code)

- Intended to provide a complete and precise knowledge of basic physics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.
- In its updated 4th edition, this book has been extensively revised on a chapter by chapter basis.

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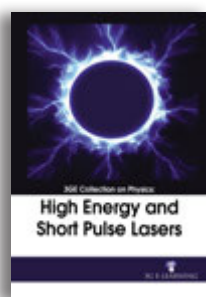


EDITION ④

### General Physics 2 (4th Edition) (with Access code)

- Provides a coherent treatment of the basic principles and theories of general physics.
- This edition helps in acquiring a better understanding of the basic principles of Kinematics and in revising a large amount of the subject matter quickly.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Subject matter has been fully revised in such a way that makes the concepts clear and understandable to readers.

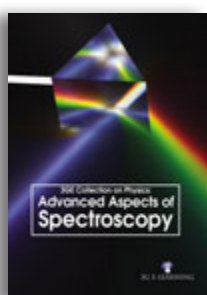
ISBN: 9781984680563 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### 3GE Collection on Physics: High Energy and Short Pulse Lasers

- This book traces the progress of this field and highlights some of its key concepts and applications.
- The book gives a comprehensive overview of the principles and applications of ultrashort pulse lasers, especially applied to medicine and production technology. Recent advances in laser technology are discussed in detail.

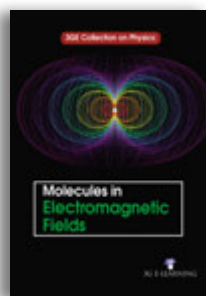
ISBN: 9781984680907 | Price: \$160 | Copyright: 2023 | Binding: Hardcover | Publisher: 3G E-learning LLC



### 3GE Collection on Physics: Advanced Aspects of Spectroscopy

- This proven book provides a systematic introduction to spectra and basic theoretical concepts in spectroscopic methods and includes up-to-date information.
- Principle, experimental set ups, parameters and interpretation rules of several advanced IR-based techniques; application to biointerface characterisation through the presentation of recent examples, will be given in this book.

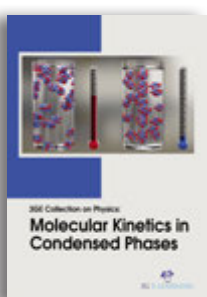
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### 3GE Collection on Physics: Molecules in Electromagnetic Fields

- Describes the effects of electromagnetic fields on the structure of molecular energy levels.
- This is a textbook on the theory and calculation of molecular electromagnetic and spectroscopic properties.

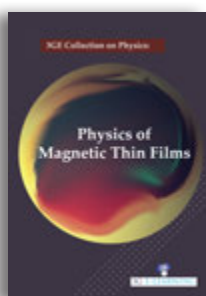
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### 3GE Collection on Physics: Molecular Kinetics in Condensed Phases

- Offers an introduction to the topic that combines theory, simulation and analysis Includes a detailed study of a two-dimensional system and of a solvated peptide.
- This book assembles both theory and application in this field, to interest experimentalists and theoreticians alike.

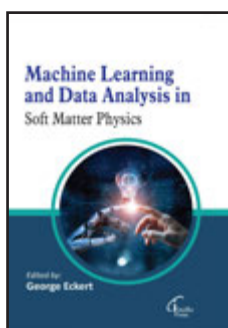
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### 3GE Collection on Physics: Physics of Magnetic Thin Films

- Presents theoretical mechanisms lying behind macroscopic properties of magnetic thin films.
- Deals with the main properties of magnetic materials in the bulk state and at the nanometric scale such as for thin films and multilayers.

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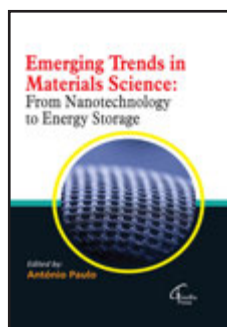
## Machine Learning and Data Analysis in Soft Matter Physics

Editor: George Eckert

Machine learning and data analysis techniques have found their place in soft matter physics, aiding in the understanding of complex molecular systems, self-assembly, and materials design. These tools facilitate the analysis of large-scale molecular simulations and experimental data, providing insights into the behavior and properties of soft materials. This book examines the application of machine learning and data analysis techniques in studying soft matter physics and its complex behavior.

Print ISBN: 9781682519974 | \$165 | 2024 | Hardcover |

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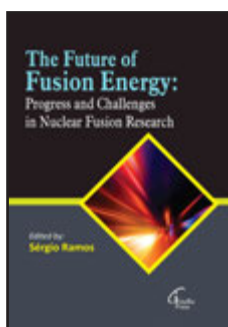
## Emerging Trends in Materials Science: From Nanotechnology to Energy Storage

Editor: Antônio Paulo

Emerging trends in materials science encompass cutting-edge research areas such as nanomaterials, biomaterials, and sustainable materials. Scientists are exploring novel synthesis methods, advanced characterization techniques, and unique material properties to develop innovative materials for energy storage, electronics, and healthcare applications. This book discusses the latest trends and developments in materials science, with a focus on nanotechnology and energy storage applications.

Print ISBN: 9781682519981 | \$165 | 2024 | Hardcover |

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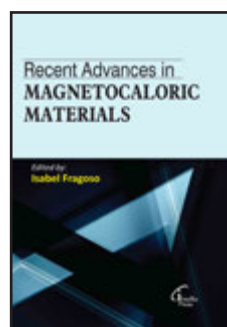
## The Future of Fusion Energy: Progress and Challenges in Nuclear Fusion Research

Editor: Sérgio Ramos

Nuclear fusion research holds the promise of a clean, abundant, and sustainable energy source. The future of fusion energy depends on addressing scientific and engineering challenges, such as achieving sustained fusion reactions, plasma confinement, and designing efficient reactors, which will pave the way for commercial fusion power generation. This book provides an overview of the progress made and challenges faced in the field of nuclear fusion research, offering insights into the potential future of fusion energy.

Print ISBN: 9781682519998 | \$165 | 2024 | Hardcover |

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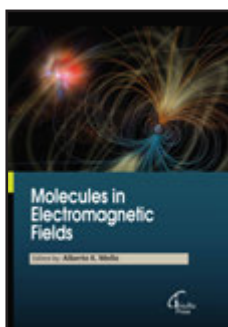
## Recent advances in Magnetocaloric Materials

Editor: Isabel Fragoso

Current trends in magnetocaloric materials have shown great potential for energy-efficient cooling and heating technologies. These materials exhibit temperature changes in response to magnetic fields and can be used in environmentally friendly refrigeration systems, reducing reliance on traditional refrigerants that contribute to global warming. This book explores the latest advancements in magnetocaloric materials, which have the potential for use in energy-efficient cooling and heating technologies.

Print ISBN: 9781682510032 | \$165 | 2024 | Hardcover |

Publisher: Intelliz Press LLC



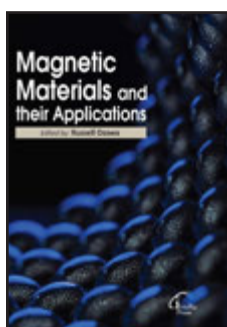
## Molecules in Electromagnetic Fields

Editor: Alberto K. Mello

This book describes the behavior of molecules in an electric or magnetic field. Molecules can sense an external electromagnetic field by their electric and magnetic moments. While electric moments arise primarily from the nonuniform electron distribution within the molecules, molecular magnetic moments are mainly due to the electrons' angular momenta. The goal of the present book is to review the major developments that have led to the current understanding of molecule-field interactions and experimental methods for manipulating molecules with electromagnetic fields. Molecule-field interactions are at the core of several, seemingly distinct, areas of molecular physics.

Print ISBN: 9781682519349 | \$165 | 2023 | Hardcover |

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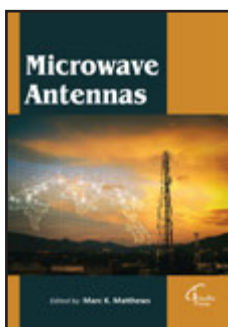
## Magnetic Materials and their Applications

Editor: Russell Ozawa

Magnetic materials encompass a wide variety of materials, which are used in a diverse range of applications. Magnetic materials are utilized in the creation and distribution of electricity, and, in most cases, in the appliances that use that electricity. It is difficult to imagine a world without magnetic materials and they are becoming more important in the development of modern society. The need for efficient generation and use of electricity is dependent on improved magnetic materials and designs. The book discusses the principles and concepts behind magnetic materials and explains their applications in the fields of physics and engineering.

Print ISBN: 9781682519356 | \$165 | 2023 | Hardcover |

Publisher: Intelliz Press LLC



**Microwave Antennas**

*Editor: Marc K. Matthews*

An antenna is a conductor or group of conductors used for radiating electromagnetic energy into space or collecting electromagnetic energy from space. When radio frequency signal has been generated in a transmitter, some means must be used to radiate this signal through space to a receiver. The device that does this job is the antenna. In this book, the research advances on substrate integrated waveguide (SIW) technology and its application in microwave antennas, components and subsystems are reviewed, which includes the propagation characteristics and discontinuity analysis of SIW, and its application in the design and implementation of directional antennas.

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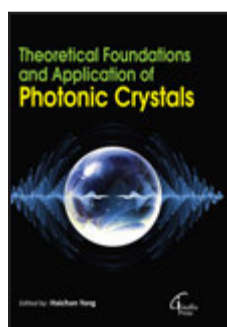
**Solid Lubricants and Surfaces**

*Editor: Daniel Margain*

Solid lubricants are critically important for safe and smooth operations of numerous tribologic systems. Lubricants provide effective lubrication when the surface area (metal to metal or metal to plastic or plastic to plastic etc.) comes in contact and prevalent speed at that moment allows for effective formation of oil film and temperature range falls within the limit. The book details the properties of solid surfaces, clean surfaces, and contaminated surfaces as well as discussing the structure.

**Print ISBN: 9781682519370 | \$165 | 2023 | Hardcover |**

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**Theoretical Foundations and Application of Photonic Crystals**

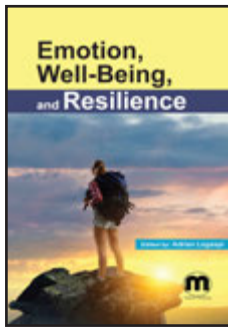
*Editor: Haichan Yang*

Photonic crystals are periodic dielectric structures that are designed to form the energy band structure for photons, which either allows or forbids the propagation of electromagnetic waves of certain frequency ranges, making them ideal for light-harvesting applications. This book covers the latest developments in the field, providing the most up-to-date, concise, and comprehensive book available on these novel materials and their applications.

**Print ISBN: 9781682519387 | \$165 | 2023 | Hardcover |**

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## Psychology and Counselling



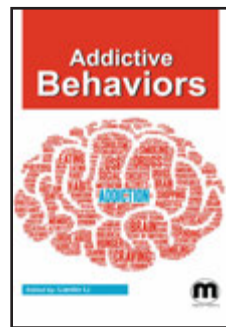
### Emotion, Well-Being, and Resilience

Editor: Adrian Legaspi

Wellbeing and resilience are important in preventing the onset of mental health problems as well as potentially lessening the severity of existing mental health problems. Wellbeing and resilience are vital to developing efficient problem-solving skills, building and maintaining interpersonal relationships and realistic goal setting, all of which greatly enhance an individual's ability to perform and contribute meaningfully in daily life. This book discusses the role of emotion, resilience, and well-being in many contexts of human life.

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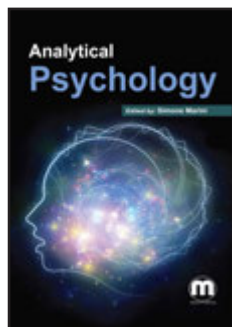
### Addictive Behaviors

Editor: Lianlin Li

Addictions occur when someone needs large amounts or constant exposure to the stimuli. Behavioral science experts believe that all entities capable of stimulating a person can be addictive; and whenever a habit changes into an obligation, it can be considered as an addiction. Researchers also believe that there are a number of similarities as well as some differences between drug addiction and behavioral addiction diagnostic symptoms. This book provides the most complete collection of current knowledge on addictive behaviors and disorders.

Print ISBN: 9781682508640 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



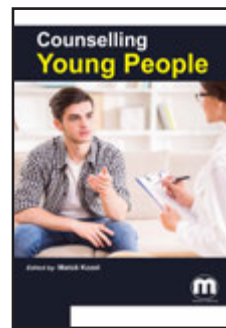
### Analytical Psychology

Editor: Simone Marini

Analytical psychology is a theory of human personality and thought that takes into account the individual unconscious and its relationship to the collective unconscious. In analytical psychology, archetypes play a key role in helping people understand themselves and integrate different aspects of their personality. This book takes account of advances in other fields such as neuroscience, philosophy and cultural studies and examines their effects on Jungian analytic theory.

Print ISBN: 9781682508657 | \$160 | 2023 | Hardcover |

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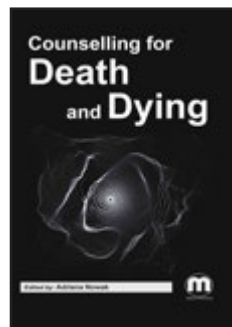
### Counselling Young People

Editor: Matúš Kozel

Guidance and counselling in the modern age have become escalated needs because of a multiplicity of problems that the individual faces in important domains of life. Guidance and counselling earn recognition through their services rendered in enhancing human happiness by being healthier, more productive, attain valuable lesson and also eliminate later stage problems. This book brings together the fundamentals of counselling young people theory, research, skills and practice.

Print ISBN: 9781682508664 | \$160 | 2023 | Hardcover |

Publisher: Magnum Publishing LLC



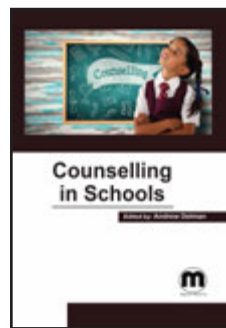
### Counselling for Death and Dying

Editor: Adriana Nowak

Although grief is an inevitable part of life, the loss of a loved one is always an unexpected and challenging situation to cope with, even when the loss is expected. It stirs up a myriad of complex emotions, and its reality dwarfs everything you've heard about grieving. There is no way to prepare to grieve. This book provides a solid background foundation and makes it readable, and well-usable, for both lay counsellors and professionals.

Print ISBN: 9781682508671 | \$160 | 2023 | Hardcover |

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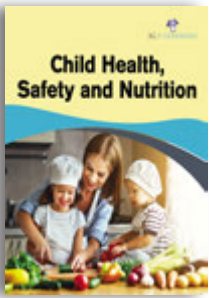
### Counselling in Schools

Editor: Andrew Delman

The primary motive behind counseling at school level is to address the emotional, social and behavioral needs of the students. And to create a seamless and friendly environment to help each one of them with different approaches. Counselling makes them more aware about their choices and goals. They make better choices in school as well get mentally prepared for the future. This book provides counsellors, educational psychologists, teachers, teacher-trainers and other interested professionals with essential insights into how counselling best works within a school.

Print ISBN: 9781682508688 | \$160 | 2023 | Hardcover |

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**Child Health, Safety and Nutrition**

- The book emphasizes the importance of respecting and partnering with families to help children establish healthy lifestyles and achieve their learning potential.
- Presents information about current concepts as they relate to the fields of health, safety, and nutrition for young children.

ISBN: 9781984679246 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



**Child Rights, Protection and Welfare**

- Presents the unique features of child abuse and neglect and discusses proposed as well as experimented protective measures to create awareness about child rights and their implementation.
- Covers the children’s rights movement and the rights of parents.
- Offers an explanation of the theoretical issues and the key policy developments that are crucial to all professions, and helps the reader to understand children s rights.

ISBN: 9781984679253 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

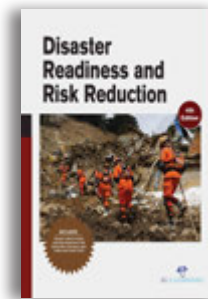


**Introduction to International Relations (2nd Edition)**

- This is an introductory book on international politics and the relations between actors in the global political system.
- The purpose of this book is to systematically study international interactions between actors with different interests and ideas.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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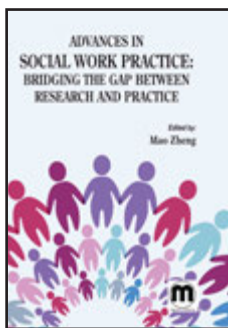


**Disaster Readiness and Risk Reduction (4th Edition) (with Access Code)**

- Deals with the topic of disaster risk reduction. This book provides an overview of the subject and looks at the role of governments, academics and corporate sectors in community based disaster risk reduction.
- This updated edition offers students real advice in navigating the ever-changing academic background.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

EDITION ④

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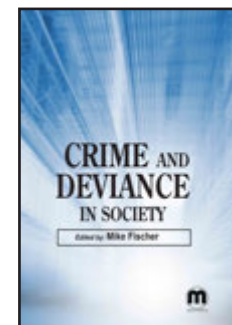
**Advances in Social Work Practice: Bridging the Gap between Research and Practice**

*Editor: Mao Zheng*

Advances in social work practice involve the application of innovative approaches, theories, and evidence-based interventions to address complex social issues, promote social justice, and enhance the well-being of individuals, families, and communities. This book highlights the integration of research and practice in the field of social work, showcasing the latest advancements and evidence-based interventions. It explores topics such as therapeutic approaches, policy implementation, interdisciplinary collaboration, and the role of technology in enhancing social work practice.

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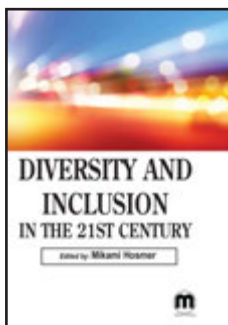
**Crime and Deviance in Society**

*Editor: Mike Fischer*

Crime and deviance are social phenomena that involve behavior that violates established norms and laws within a society, and their study allows for a better understanding of the causes, consequences, and societal responses to such behaviors. Investigating the complex nature of crime and deviance, this book examines the social, cultural, and psychological factors contributing to criminal behavior. It covers the various theoretical perspectives, explores the impact of social institutions, and analyzes the role of law enforcement and criminal justice systems in addressing crime and deviance.

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### Diversity and Inclusion in the 21st Century

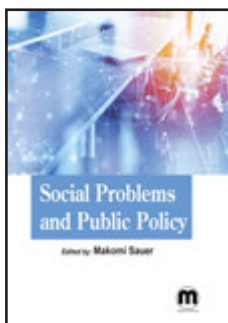
*Editor: Mikami Hosmer*

In the 21st century, fostering diversity and inclusion has become essential for building equitable and inclusive societies, recognizing and valuing the differences in race, ethnicity, gender, sexuality, ability, and other identities, and promoting equal opportunities and representation for all. This book addresses the importance of diversity and inclusion in contemporary society. It explores the challenges and opportunities associated with

promoting diversity in various contexts, including education, workplace, and community. It also examines strategies for creating inclusive environments and fostering social equity.

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### Social Problems and Public Policy

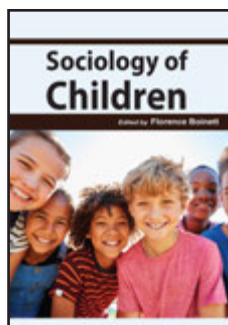
*Editor: Makomi Sauer*

The study of social problems and public policy examines how societal issues, such as poverty, inequality, and healthcare disparities, are identified, understood, and addressed through the development and implementation of policies and programs by governmental and non-governmental entities. This book explores the intersection of social problems and public policy, examining the ways in which society addresses and responds to pressing issues. It analyzes various social problems such as poverty, inequality, crime, and healthcare disparities, and discusses the role of public policy in addressing these challenges. The book also explores the complexities and ethical considerations involved in formulating effective and equitable policies.

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### Sociology of Children

*Editor: Florence Boinett*

Sociologists study the influence of groups on human behavior. They study how humans behave in small groups, such as families and schools. This book provides a conceptual tool for thinking about the continuities, challenges and changes that impact on how childhood is lived and experienced. This book gives all those who care about or for young children the tools and understanding to become powerful advocates for a better childhood, and a better world.

**Print ISBN: 9781682508176 | \$160 | 2023 | Hardcover |**

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### Gender and Political Participation in Europe

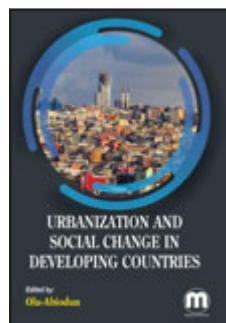
*Editor: Adebisi Murwira*

The exploration of gender and political participation in Europe focuses on understanding the dynamics and barriers that affect women's representation and participation in political processes, aiming to achieve greater gender equality and inclusive decision-making structures. Focusing on gender dynamics in political participation, this book analyzes the experiences and challenges faced by women in European politics. It examines

the factors influencing women's political engagement, such as gender stereotypes, institutional barriers, and policy initiatives. It also explores the impact of women's political participation on democratic processes and governance.

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### Urbanization and Social Change in Developing Countries

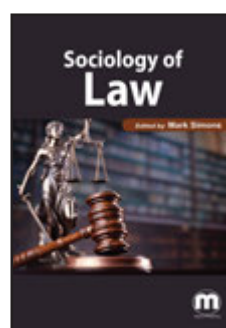
*Editor: Olu-Abiodun*

Urbanization in developing countries is accompanied by significant social changes, including shifts in employment patterns, migration, infrastructure development, and cultural transformations, which have wide-ranging impacts on individuals, communities, and societies as a whole. Focusing on the rapid urbanization in developing countries, this book examines the profound social changes occurring in urban areas. It explores the impact of

urbanization on various aspects of society, including demographics, economy, infrastructure, and culture. It also addresses the challenges and opportunities associated with managing urban growth and promoting sustainable development in developing countries.

**Print ISBN: 9781682509128 | \$160 | 2024 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Sociology of Law

*Editor: Mark Simons*

Sociology of law is a scientific field that studies the social preconditions of the law and the justice system, and their effects on society. This book provides a sociological perspective on the relationship between law and society through a critical analysis of the basic processes of law, issues of social power and legal institutions, and law reform and social change. The book focuses on understanding legal practices and decision-making, the challenges in defining and implementing rights, the effectiveness

of regulation, the crisis being experienced by civil courts, and the challenges facing the legal profession.

**Print ISBN: 9781682508237 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



**Urban Politics**

*Editor: Chun Wang*

Urban governance is primarily concerned with the processes through which government is organized and delivered in towns and cities and the relationships between state agencies and civil society—a term that is used to include citizens, communities, private-sector actors, and voluntary organizations. The sphere of urban politics has also seen a growing interest in the RA, particularly in understanding the changing nature of local government amid the shift from one mode of regulation to another.

This book will appeal for students of urban sociology, urban affairs, urban planning and public policy.

**Print ISBN: 9781682508138 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



**Modern Political Theory**

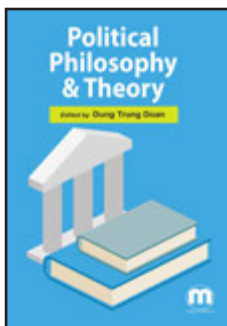
*Editor: Fuchuan Wang*

Significance of political theory lies in providing the moral criteria that ought to be used to judge the ethical worth of a political state and to propose alternative political arrangements and practices likely to meet the moral standards. This book introduces the concept of political theory from different viewpoints, such as justice and the law, government and the state, and equality and human rights. The specialization on political theory focuses on current topics and debates in the field.

A special emphasis is put on recent methodological developments spurred by, for instance analytical philosophy.

**Print ISBN: 9781682508145 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



**Political Philosophy & Theory**

*Editor: Dung Trung Doan*

Political philosophy is the study of fundamental questions about the state, government, politics, liberty, justice and the enforcement of a legal code by authority. It is ethics applied to a group of people, and discusses how a society should be set up and how one should act within a society. The book covers the philosophical thought about the state, the nature of the state, its functions, values, the truth of the state experience, the philosophical inquiry into the validity of the state experience as

the ultimate fulfillment of life, and the world. The book surveys important issues in Western political philosophy from Plato to the present day.

**Print ISBN: 9781682508152 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



**Sociology of Art**

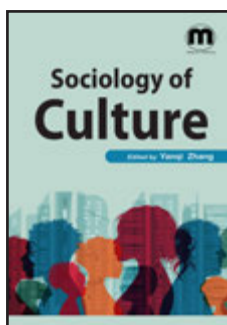
*Editor: Maureen Kapute Mzuza*

Sociology of art is a subdiscipline of sociology that analyzes art as a social phenomenon. Moreover, in a globalized society, the nature of arts production, consumption and policy making is increasingly cosmopolitan, and arts are an important means for building social networks, challenging political regimes, and reaffirming and subverting social values across the globe. The book highlights the production and consumption of the arts, the social value of the arts, and analyses and critiques

the impact and role of cultural policy and arts management.

**Print ISBN: 9781682508169 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



**Sociology of Culture**

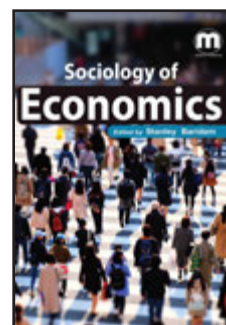
*Editor: Yanqi Zhang*

For the last 40 years, American sociology has been transformed from the inside by the rapid growth of the study of culture, which includes both the study of meaning-making, identity, myths and narratives and the study of cultural institutions and cultural production, diffusion, and reception. The purpose of the book is to encourage development of this perspective through the organized interchange of ideas and research. It provides a comprehensive overview of contemporary scholarship in sociology and related disciplines focused on the complex relations of culture to social

structures and everyday life.

**Print ISBN: 9781682508183 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



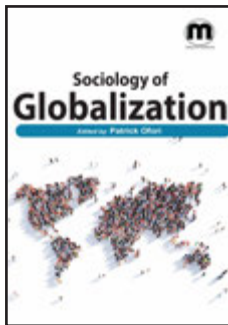
**Sociology of Economics**

*Editor: Stanley Baridam*

The field of economic sociology can be separated into the sociology of markets and the sociology of consumption. The sociology of markets views markets as socially constructed arenas where repeated exchanges occur between buyers and sellers under a set of formal and informal rules governing relations between competitors, suppliers, and customers. This book offers critical insights into its fundamental concepts and developments.

**Print ISBN: 9781682508190 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Sociology of Globalization

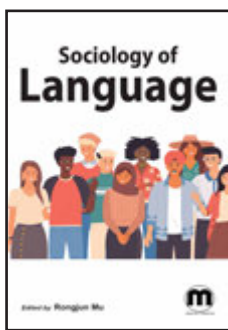
*Editor: Patrick Ofori*

Globalization refers to the process of integrating governments, cultures, and financial markets through international trade into a single world market. Although the word 'globalization' is widely used, its sociological meaning needs clarification. The aim of this book is to achieve that, while returning to the basic premise that sociology is the primary discipline that charts changes within the world-society. In order to understand world metamorphosis, there is an urgency to make available

accurate and reliable data and match universally recognized definitions. Both of these suggestions bring us to the broader yet fundamental issue of the specific principles required within the social sciences.

**Print ISBN: 9781682508206 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Sociology of Language

*Editor: Rongjun Mu*

Sociology is a discipline in dialogue with other social sciences to understand and analyze, under the rules of scientific method, societal organization and social change. Organization and change occur both under specific conditions of social inequalities and in institutional frameworks. The book focuses upon the entire gamut of topics related to the social organization of language behavior, including not only language usage per se but also language attitudes and overt behaviors toward language and

toward language users.

**Print ISBN: 9781682508220 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**



### Sociology of Health & Illness

*Editor: Lam Dai Tran*

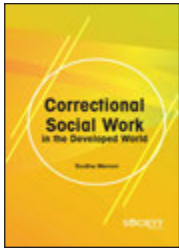
Health, or lack of health, was once merely attributed to biological or natural conditions. Sociologists have demonstrated that the spread of diseases is heavily influenced by the socioeconomic status of individuals, ethnic traditions or beliefs, and other cultural factors. The sociology of health and illness requires a global approach of analysis because the influence of societal factors varies throughout the world. The book covers three main areas: namely, the conceptualization of health and illness; the

study of their measurement and social distribution; and the explanation of patterns of health and illness.

**Print ISBN: 9781682508213 | \$160 | 2023 | Hardcover |**

**Publisher: Magnum Publishing LLC**





**Correctional Social Work in the Developed World**

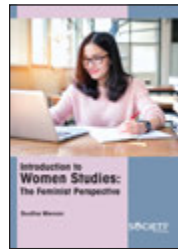
**Sudha Menon**

An overview of social work is presented in this book. It serves as a demonstration of the fundamentals of social work and community advancement. It talks about the social activities undertaken with juvenile delinquents in detention centres. This book also includes an introduction to social work practise in prisons. Furthermore, the criminal justice system, the strong points approach, and social work have all been mentioned.

Copyright 2023 | HB 9781774693858 | Price: \$165 | Publisher: Society Publishing

**About the Author**

Dr. Sudha Menon is a freelance consultant, researcher, activist and NGO professional based in India with more than 17 years of experience in social sector documentation and public policy research. She holds MA and PhD in Political Science from University of Kerala. Since 2009, she has been working for the economic empowerment of informal sector women workers in South Asia. She is the author of 12 books and many research papers published in reputed journals and magazines. Currently she serves as the Trust Council Member of 'Citizens Rights Watch', an international NGO based in London.



**Introduction to Women Studies: The Feminist Perspective**

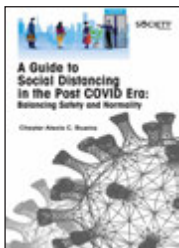
**Sudha Menon**

The idea of women's studies is stated in the book. Sexuality, feminism, and feminist theory are all addressed in this book. Likewise, it highlights the importance of scientific and technological education for women. Along with violent behaviour against women and male dominance.

Copyright 2023 | HB 9781774693964 | Price: \$165 | Publisher: Society Publishing

**About the Author**

Dr. Sudha Menon is a freelance consultant, researcher, activist and NGO professional based in India with more than 17 years of experience in social sector documentation and public policy research. She holds MA and PhD in Political Science from University of Kerala. Since 2009, she has been working for the economic empowerment of informal sector women workers in South Asia. She is the author of 12 books and many research papers published in reputed journals and magazines. Currently she serves as the Trust Council Member of 'Citizens Rights Watch', an international NGO based in London.



**A Guide to Social Distancing in the Post COVID Era: Balancing Safety and Normality**

**Chester Alexis C. Buama**

Social distancing or physical distancing is an intervention that requires humans to avoid physical proximity and contact with other human beings. The theory behind social distancing is that the reduction of probability of uninfected people getting in physical contact with infected ones will reduce overall infection rates over time

and eventually help to eliminate the pathogen that is causing the disease. The book explores the implications and future of social distancing as the world slowly returns to something of normality. This book also explores the various aspects of social distancing, including its justifications, modalities, and consequences.

Copyright 2023 | HB 9781774694008 | Price: \$165 | Publisher: Society Publishing

**About the Author**

Hon. Chester Alexis C. Buama, PhD, is a College Professor at Laguna State Polytechnic University under the Faculty of College of Arts and Sciences and currently serving as Regent of the LSPU Board of Regents the highest policy-making body of the university. He previously served as the College Research Coordinator and Coordinator of Curriculum, Instruction Quality Assurance, A Consultant of the Department of Education Central Office for Learning Assessment and National Trainer of the Commission on Higher Education for General Education Courses. He is also a member of local and international organizations: he is a Fellow and Senior Member of the Royal Institute of Management and the Royal Institute of Educators, Singapore, Reading Association of the Philippines, and International English Learners Training Institute. He was a Philippine Youth Ambassador to ASEAN countries and Japan which was sponsored by the Cabinet Office of Japan and Office of the President of the Philippines in 2010. He has a Master's degree in Management major in Public Administration and a Bachelor's degree in Journalism. He was conferred a Doctorate Degree in Philosophy major in Public Administration in 2016 and graduated with a Doctorate Degree in Philosophy major in Business Management in 2018. At present he is teaching Human Behavior in Organization, Social Philosophy, Principles of Management and Organization, Good Governance and Social Responsibility, Business Communication, Macro and, Micro Economics and Philippine History and Constitution both in the undergraduate and graduate levels. Moreover, he has actively participated in the Civic Activities of the Global Cooperation Society International, Philippine National Chapter and is often invited as resource speaker in various management and research writing seminars. Recently, he was awarded the Ambassador Seal of Excellence for Education as Research Practitioner and as 2018 Outstanding Premier College Professor and Humanitarian Service Excellence Award by the Asia Pacific Excellence Council, Inc.



**The Dangers of Economic Imperialism**

**Chester Alexis C. Buama**

A basic introduction to the economic imperialism, and impact of economic imperialism have been illustrated in detail in this book. It further talks about the history, concept and constraints of economic imperialism. This book provides highlights on the the interdisciplinarity challenges of economic imperialism, and the role of international organizations in globalization process.

Copyright 2023 | HB 9781774694848 | Price: \$165 | Publisher: Society Publishing

**About the Author**

Hon. Chester Alexis C. Buama, PhD, is a College Professor at Laguna State Polytechnic University under the Faculty of College of Arts and Sciences and currently serving as Regent of the LSPU Board of Regents the highest policy-making body of the university. He previously served as the College Research Coordinator and Coordinator of Curriculum, Instruction Quality Assurance, A Consultant of the Department of Education Central Office for Learning Assessment and National Trainer of the Commission on Higher Education for General Education Courses. He is also a member of local and international organizations: he is a Fellow and Senior Member of the Royal Institute of Management and the Royal Institute of Educators, Singapore, Reading Association of the Philippines, and International English Learners Training Institute. He was a Philippine Youth Ambassador to ASEAN countries and Japan which was sponsored by the Cabinet Office of Japan and Office of the President of the Philippines in 2010. He has a Master's degree in Management major in Public Administration and a Bachelor's degree in Journalism. He was conferred a Doctorate Degree in Philosophy major in Public Administration in 2016 and graduated with a Doctorate Degree in Philosophy major in Business Management in 2018. At present he is teaching Human Behavior in Organization, Social Philosophy, Principles of Management and Organization, Good Governance and Social Responsibility, Business Communication, Macro and, Micro Economics and Philippine History and Constitution both in the undergraduate and graduate levels. Moreover, he has actively participated in the Civic Activities of the Global Cooperation Society International, Philippine National Chapter and is often invited as resource speaker in various management and research writing seminars. Recently, he was awarded the Ambassador Seal of Excellence for Education as Research Practitioner and as 2018 Outstanding Premier College Professor and Humanitarian Service Excellence Award by the Asia Pacific Excellence Council, Inc.



## Introduction to Adapted Physical Exercises and Sports (with Access Code)

- This book provide readers with opportunities to think critically about real-life situations that arise when working with children with varied abilities and disabilities.
- This book offers an overview of some of the core concerns underlying lifelong engagement in sport and physical activity, encompassing every age and phase of engagement.

ISBN: 9781984679277 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Measurement and Evaluation in Sports (with Access Code)

- This book is designed to provide students with measurement and evaluation knowledge and skills essential to becoming an effective evaluator in the physical education and sport instructional setting.
- This book takes a learner-oriented approach as it strives to make complex material understandable and usable.

ISBN: 9781984679291 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Management of Sports Events (2nd Edition) (with Access Code)

- Introduces to the principles and practical skills that underpin the running and hosting of major sports events, from initial bid to post-event legacy.
- Explores the organizational principles of a sport event, the financial management of a sport event into practice, select and manage professional collaborators and/or volunteers, and to obtain and align available resources for a sport event.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

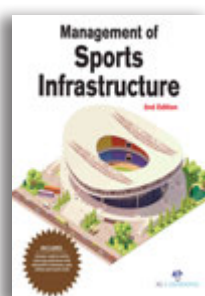
ISBN: 9781984679475 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Organization and Administration In Sports

- The book is to familiarize the students and teachers with the latest methods in organization and administration.
- Presents the theory and practice of the administration of physical education and sport programs in an easy-to-read, easy-to-use format.

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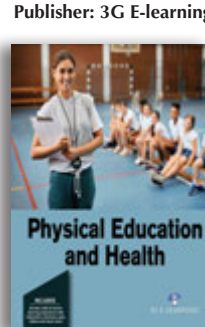


## Management of Sports Infrastructure (2nd Edition) (with Access Code)

- Introduces the student to sport management career opportunities and to sport principles as they apply to management, leadership style, communication, motivation and entrepreneurship.
- Presents an analysis of effective management strategies and the body of knowledge associated with pursuing a career in sport.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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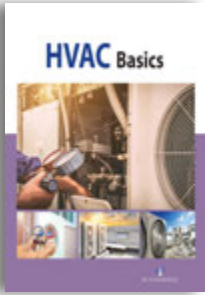
## Physical Education and Health (4th Edition) (with Access Code)

- Aimed to provide a review and analysis of new directions in physical education and health world-wide.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.
- Through this updated edition, you can learn to use the latest life-changing information to improve your fitness and enhance your quality of life.

EDITION ④

ISBN: 9781984680440 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

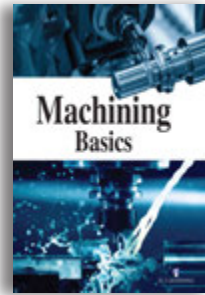
Publisher: 3G E-learning LLC



## HVAC Basics

- A comprehensive guide to understanding the principles of Heating, Ventilation, and Air Conditioning systems.
- The book covers topics such as refrigeration cycles, psychrometrics, and HVAC equipment selection.
- It is an excellent resource for both students and professionals in the field.

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## Machining Basics

- A comprehensive guidebook for beginners seeking to understand the principles of machine tools and their operations.
- It covers the fundamental concepts of machining, including cutting speeds and feeds, tool geometry, and machine tool operations.
- The book also provides practical tips and techniques for machining various materials.

ISBN: 9781984685520 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## CNC Basics

- A comprehensive guide to understanding the basics of Computer Numerical Control (CNC) machining.
- Includes the fundamental concepts of CNC machines, including programming, tooling, and machining processes.
- The book is an excellent resource for anyone interested in learning about CNC technology.

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## Basic Knowledge of Electrical Technology

- A comprehensive guide to the fundamentals of electrical engineering.
- It deals with topics such as circuit analysis, electrical machines, power systems, and more.
- The book is an essential resource for anyone interested in pursuing a career in electrical engineering or related fields.

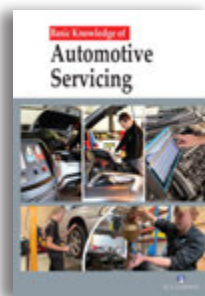
ISBN: 9781984685551 | Price: \$70 | Copyright: 2024 | Binding: Paperback | Publisher: 3G E-learning LLC



## Basic Knowledge of Automotive Repair

- A comprehensive guide that covers the fundamental principles of fixing and maintaining automobiles.
- From changing oil to repairing brakes, this book provides readers with the essential knowledge needed to keep their vehicles in top shape.
- Designed in clear and concise language, it is an invaluable resource for both novice and experienced mechanics alike.

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## Basic Knowledge of Automotive Servicing

- An essential guide for anyone interested in learning about car maintenance.
- This comprehensive book covers everything from changing oil to diagnosing engine problems, making it a valuable resource for both beginners and experienced mechanics.
- With clear explanations and step-by-step instructions, this book is a must-have for anyone who wants to keep their car running smoothly.

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## Welding Basics

- An excellent guidebook for anyone interested in learning about welding.
- It covers the fundamental principles of welding, including equipment and techniques, in a clear and concise manner.
- The book is an essential resource for both beginners and experienced welders looking to improve their skills.

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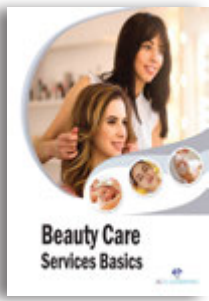


## Basic Knowledge of Digital Marketing

- An essential read for anyone interested in expanding their understanding of digital marketing.
- It provides a comprehensive overview of key concepts and techniques used in the industry, including SEO, PPC, social media marketing, and email marketing.
- With practical tips and real-world examples, this book is a valuable resource for both beginners and experienced marketers.

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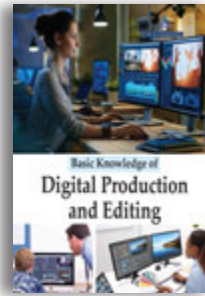
# Vocational



## Beauty Care Services Basics

- A comprehensive guide for anyone interested in the beauty industry.
- Deals with all aspects of beauty care, including hair styling, skincare, and makeup application.
- This book is an essential resource for aspiring beauty professionals or anyone looking to improve their personal beauty routine.

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## Basic Knowledge of Digital Production and Editing

- A comprehensive guide to understanding the digital media landscape.
- Covers a wide range of topics, from the basics of digital editing software to the latest trends in digital content creation.
- Whether you are a beginner or an experienced digital media professional, this book provides valuable insights and practical tips that can help you take your skills to the next level.

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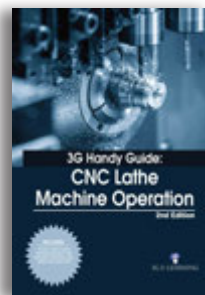


## 3G Handy Guide: Automotive Repairing (with Access Code) (2nd Edition)

- Inside this handy guide the reader will learn to do routine maintenance, tune-up procedures, engine repair, along with aspects of your car such as cooling and heating, air conditioning, and much more.
- Illustrates basic techniques of repair, maintenance, and troubleshooting including instructions for such operations as fixing a dead horn, changing a car's computer, and servicing drum brakes.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ③

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## 3G Handy Guide: CNC Lathe Machine Operation (with Access Code) (2nd Edition)

- Packed with practical information and real case, this guide covers everything from the basics of working with tools to the most detailed metalworking processes.
- This guide illustrates every aspect of the lathe, including how to choose one, how to select tools and accessories, how to maintain and repair the machine, and basic techniques.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## 3G Handy Guide: Construction Painting (with Access Code) (2nd Edition)

- This handy guide illustrates what painters and paint contractors need to know to thrive in the paint contracting business bring you up-to-date and expert knowledge of painting and decorating.
- This handy guide is intended to all learners interested in learning the fundamentals of exterior and interior painting, interior decorating and design, wood finishing and refinishing, drywall finishing, texturing, spray painting, and faux finishing.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## 3G Handy Guide: Welding (with Access Code) (2nd Edition)

- This book is an ultimate guide that is straight to the point about what you need to know and how to do it to be a successful welder.
- Illustrates the latest developments in the field and how they can be used across a variety of applications.
- A standard introduction and guide to the main welding technologies and their applications.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## 3G Handy Guide: Automotive Servicing (with Access Code) (2nd Edition)

- A comprehensive guide provides an accessible overview of automotive systems to prepare you for all aspects of work in the field.
- This book guides readers through the basic maintenance, diagnosis, and servicing of all automotive systems, from tool and shop safety through the steps necessary to maintain a modern motor vehicle.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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## Furniture Design and Construction (with Access Code)

- The book is intended to provide an insight into furniture design for those considering education in product and industrial design.
- The comprehensive guide to furniture design expanded and updated Furniture designers draw on a range of knowledge and disciplines to create their work.

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## Architectural Tools and Equipments

- Focuses on the techniques, methodologies, and graphic tools used in conveying architectural ideas. The book takes a look at equipment and materials, architectural drafting, and architectural drawing conventions.
- This book will introduce you to the basic equipment you will use in your study of architectural design.

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## Wood Construction Technology (with Access Code)

- The book encodes a vision for the actively sustainable management and development of the built environment by referring to the application of timber-based construction systems.
- The book delivers an outline of the scientific disciplines necessary to apprehend the technologies of wood modification and its behavior during treatment, as well as during its use.

ISBN: 9781984678959 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Styling and Treatment of Hair (with Access Code)

- The book contains Machine Knowledge (Crimping, Ironing, Blow Dry) Thermal Work (Velcro Setting, Curling Styles, Ironing Techniques) Deep Conditioning Treatment and Heena Application.
- Explores how to style hair curly, straight and how to add volume to fine hair. Knowing your hair from the inside out, structure growth cycle Best foods for beautiful hair.

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## Agricultural Implements and Machinery

- This book contains a classic guide to farm machinery, primarily dealing with the operation, mechanics, repair, and maintenance thereof.
- This book will provide comprehensive knowledge to the readers.

ISBN: 9781984678928 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Architectural Designing and Planning (with Access Code)

- In this book, essential aspects of sustainability in architecture and planning are approached from different perspectives.
- This book aims to allow students to learn, develop, and cultivate skills in the architectural design and planning sectors.

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## Sanitation in Cosmetology (with Access Code)

- When it comes to properly clean off your salon tools, sanitation means washing them regularly with warm water and soap – removing all visible dirt and product buildup with a brush before moving on to disinfecting them.
- This book is designed to provide information regarding sources of infection and contamination and personal protection. It also covers

decontamination, cleaning, disinfecting and storage of implements and equipment, along with safety and sanitary procedures.

ISBN: 9781984678973 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



## Cosmetics and Treatments of Body Parts (with Access Code)

- Cosmetology is the promising career for youth because of advancement in the life style.
- This book enlightens the reader not only on current cosmetics and usage, but indicates future progress enlarging the beneficial effects of cosmetics.

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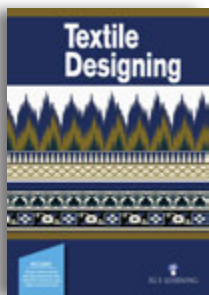
## Vocational



### Garment Construction (with Access Code)

- Covers everything you need to know about choosing fabric, taking measurements, altering patterns, fitting, design, and more.
- Proposes and explores an alternative paradigm for pattern cutting that includes a new theoretical approximation of the body as well as a more kinetic method for garment construction.

ISBN: 9781984679024 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Textile Designing (with Access Code)

- This book explains the fundamentals of printed textile design, from design brief through to the completed collection, and introduces the basics of color, drawing, and composition.
- This book includes fundamentals of textile processing technology with explanation of craft techniques, various stages of processing fibers and yarns with useful, readily understandable, line drawings.

ISBN: 9781984679048 | Price: \$95 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC

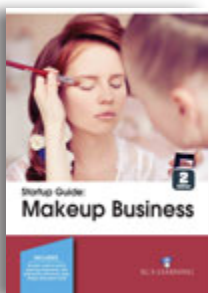


### Startup Guide: Hair Salon (2nd Edition) (with Access Code)

- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- Explores basics of problem identification, innovation, idea formation & brainstorming, idea validation, risk assessment, business plan creation, financial planning, startup accounting, sales, fundraising, marketing, launching, crowd funding, and managing a startup.

EDITION ②

ISBN: 9781984679406 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Startup Guide: Makeup Business (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running a Makeup Business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

ISBN: 9781984679437 | Price: \$90 | Copyright: 2023 | Binding: Paperback | Publisher: 3G E-learning LLC



### Introduction to Tailoring (with Access Code)

- Presents an introduction to tailoring techniques through step-by-step instructions.
- Demonstrates how to create a tailored jacket with a list of tools, advice on selecting fabrics and patterns, and techniques for constructing and sewing each part of the garment.

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### Startup Guide: Construction and Contracting (2nd Edition) (with Access Code)

- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- Explores useful basics of problem identification, innovation, idea formation & brainstorming, idea validation, risk assessment, business plan creation, financial planning, startup accounting, sales, fundraising, marketing, launching, crowd funding, and managing a startup.

EDITION ②

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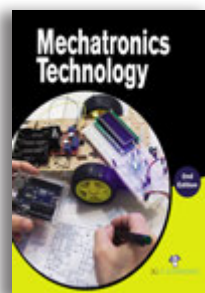


### Startup Guide: Fashion Business (2nd Edition) (with Access Code)

- Students will learn the legal, ethical, and structural aspects of forming and running a Fashion Business.
- Students will learn how to get out of the building and search for the real pain points and unmet needs of customers.
- The second, fully revised edition of this guide presents multifaceted, up-to-date and all-inclusive information which will be useful to students.

EDITION ②

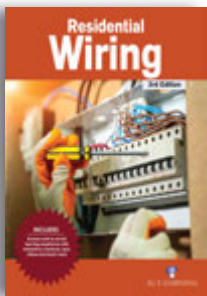
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### Mechatronics Technology (2nd Edition)

- This book is intended to cover in mechatronic and integrated monitoring and management systems with applications to architectural, archaeology survey, construction management and civil engineering.
- Designed for the student who wishes to prepare for a career as a Mechatronics technician/electrician.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

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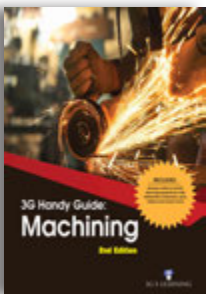


### Residential Wiring (3rd Edition) (with Access Code)

- This revised edition examines residence unit electrical power and lighting wiring for the installer.
- Covers all aspects of residential wiring and how to apply them to the wiring of a typical house.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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### 3G Handy Guide: Machining (2nd Edition) (with Access Code)

- Machine manufacturing and tool dies have become increasingly valuable, especially in the production of high-precision tools for high-tech manufacturing and large industrial construction.
- This handy guide provides essential information on modern machining technology, with emphasis on the processes used regularly across several major industries.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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### 3G Handy Guide: Retail Manager (2nd Edition) (with Access Code)

- Focuses on imparting the theoretical concepts necessary to understand the dynamics of Retail Management.
- Guides the basic principles of marketing that including marketing strategy and planning, product policy, distribution, promotion, segmentation and pricing decisions.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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### 3G Handy Guide: Electrician (with Access Code) (2nd Edition)

- This is a basic training and maintenance guide designed to explain the principles involved in the operation of electrical equipment in an average industrial plant.
- This handy guide covers everything from choosing the correct devices, tools, and materials to the efficient management of tools and materials in an actual construction operation.
- In its updated second edition, this guide has been extensively revised on a chapter by chapter basis.

EDITION ②

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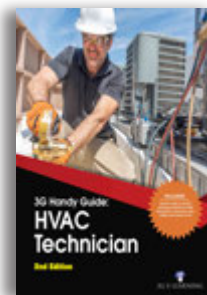


### 3G Handy Guide: Property Management (2nd Edition) (with Access Code)

- This text provides a flexible, current and practical overview of the field for real estate practitioners.
- Students will obtain in-depth knowledge of property maintenance and functional and aesthetic development of buildings.
- In its updated second edition, this book has been extensively revised on a chapter by chapter basis.

EDITION ②

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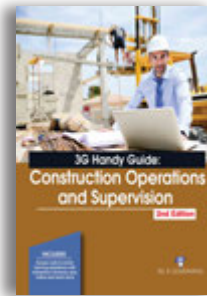


### 3G Handy Guide: HVAC Technician (2nd Edition) (with Access Code)

- Heating, Ventilation and Air Conditioning (HVAC) technicians install, maintain and repair indoor air quality systems, such as air conditioners.
- Covers the basic principles of heating, ventilating and air conditioning (HVAC) systems.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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### 3G Handy Guide: Construction Operations and Supervision (2nd Edition) (with Access Code)

- Equips students with the knowledge and skills they need to enter the construction industry as skilled professionals with training in site operations, coordination, and supervision.
- Reflects the role and responsibility of employees working in supervisory positions in civil construction.
- This edition is thoroughly updated with new chapters and the latest coverage of the topics.

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