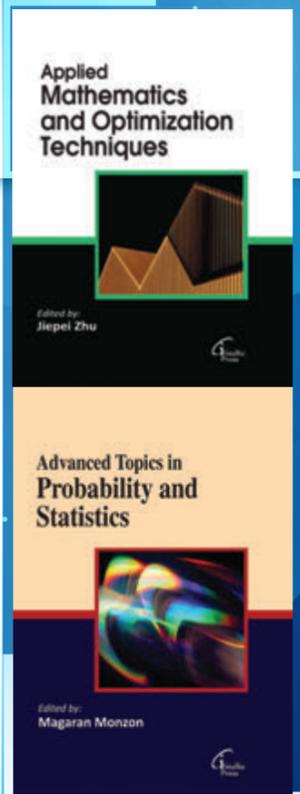


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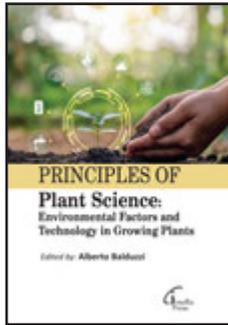
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New Rochelle, New York
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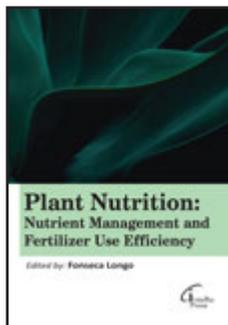


Principles of Plant Science: Environmental Factors and Technology in Growing Plants

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

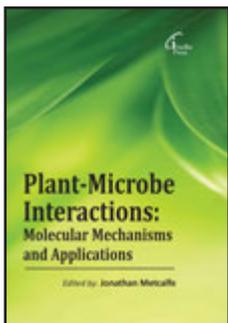


Plant Nutrition: Nutrient Management and Fertilizer Use Efficiency

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

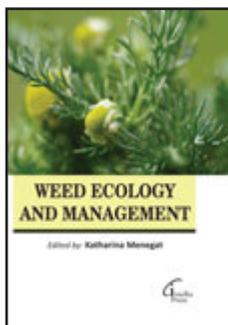


Plant-Microbe Interactions: Molecular Mechanisms and Applications

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

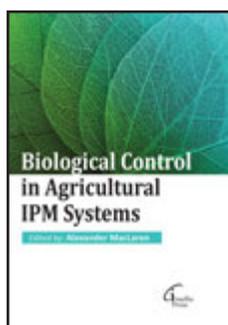


Weed Ecology and Management

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



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

AGRICULTURE AND PLANT SCIENCE

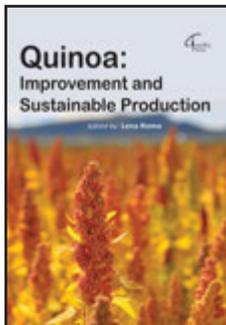


Carbon Cycling in Cropping Systems

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 CO₂. 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.

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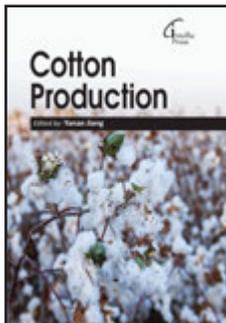


Quinoa: Improvement and Sustainable Production

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.

Print ISBN: 9781682518892 | \$160 | 2023 | Hardcover

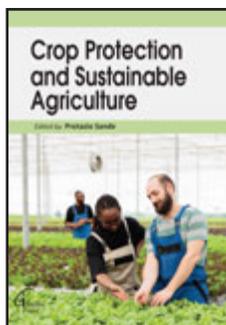


Cotton Production

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

Print ISBN: 9781682518908 | \$160 | 2023 | Hardcover

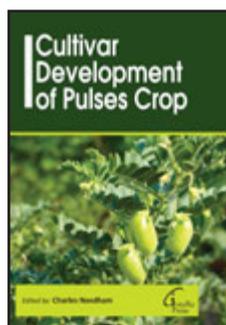


Crop Protection and Sustainable Agriculture

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.

Print ISBN: 9781682518915 | \$160 | 2023 | Hardcover

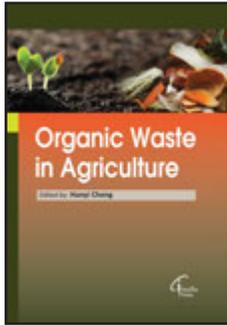


Cultivar Development of Pulses Crop

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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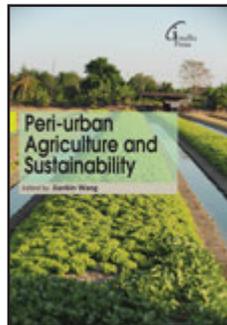


Organic Waste in Agriculture

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.

Print ISBN: 9781682518939 | \$160 | 2023 | Hardcover

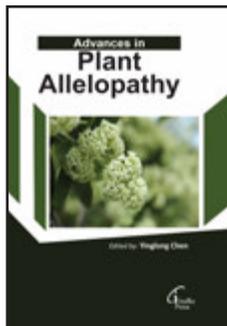


Peri-urban Agriculture and Sustainability

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.

Print ISBN: 9781682518946 | \$160 | 2023 | Hardcover

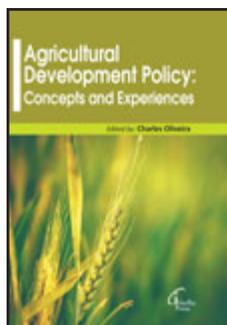


Advances in Plant Allelopathy

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.

Print ISBN: 9781682518953 | \$160 | 2023 | Hardcover

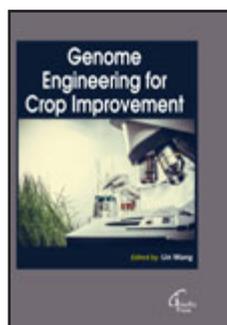


Agricultural Development Policy: Concepts and Experiences

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



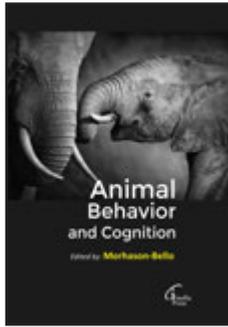
Genome Engineering for Crop Improvement

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

ANIMAL AND VETERINARY SCIENCE

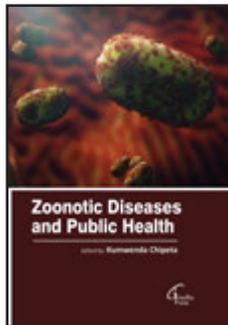


Animal Behavior and Cognition

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



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

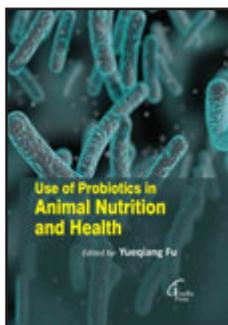


Impact of Environmental Factors on Animal Health

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

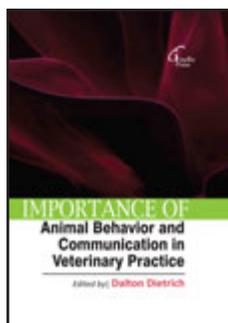


Use of Probiotics in Animal Nutrition and Health

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



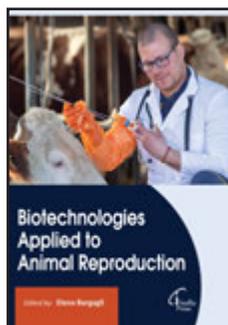
Importance of Animal Behavior and Communication in Veterinary Practice

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

ANIMAL AND VETERINARY SCIENCE

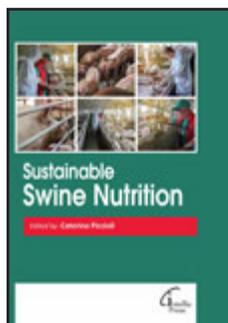


Biotechnologies Applied to Animal Reproduction

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

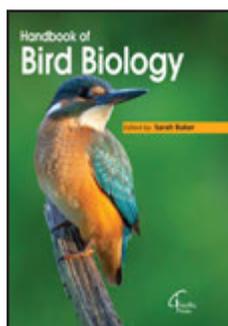


Sustainable Swine Nutrition

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

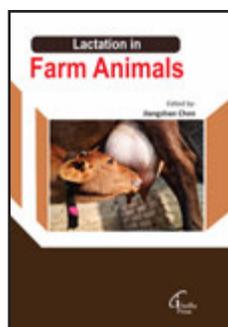


Handbook of Bird Biology

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

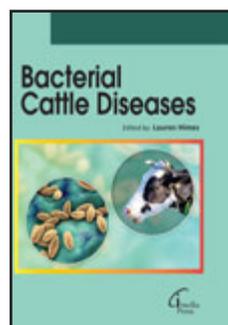


Lactation in Farm Animals

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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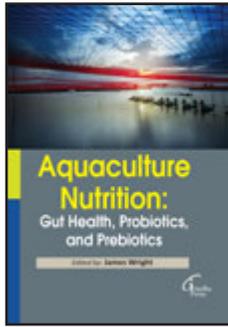
Bacterial Cattle Diseases

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.

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AQUACULTURE AND FISHERIES

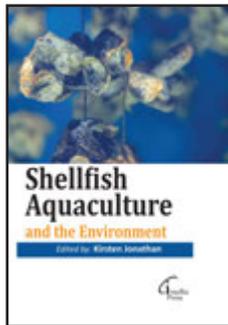


Aquaculture Nutrition: Gut Health, Probiotics, and Prebiotics

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.

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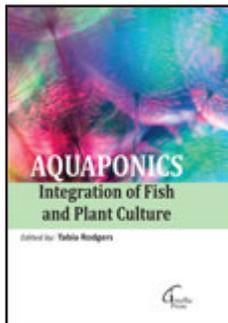


Shellfish Aquaculture and the Environment

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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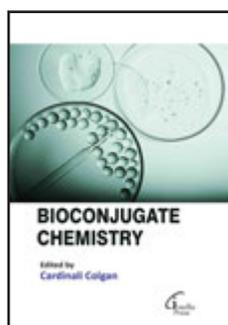


Aquaponics: Integration of Fish and Plant Culture

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.

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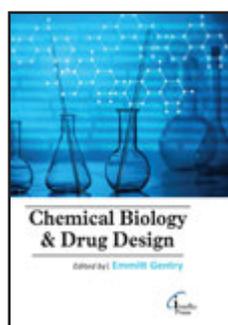


Bioconjugate Chemistry

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.

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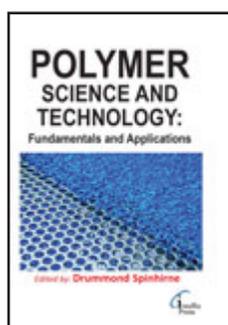


Chemical Biology & Drug Design

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.

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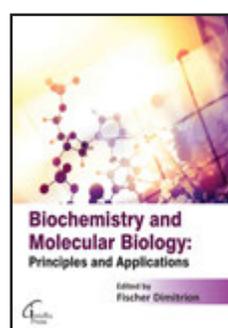


Polymer Science and Technology: Fundamentals and Applications

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

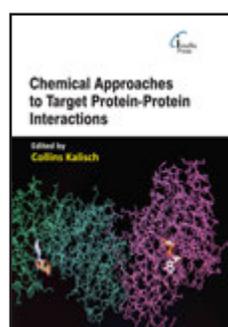


Biochemistry and Molecular Biology: Principles and Applications

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



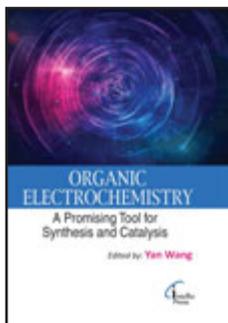
Chemical Approaches to Target Protein-Protein Interactions

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.

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CHEMISTRY

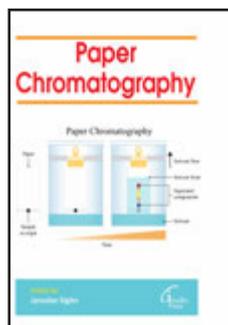


Organic Electrochemistry: A Promising Tool for Synthesis and Catalysis

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

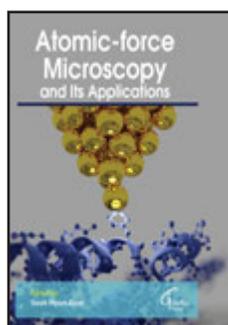


Paper Chromatography

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.

Print ISBN: 9781682519103 | \$165 | 2023 | Hardcover

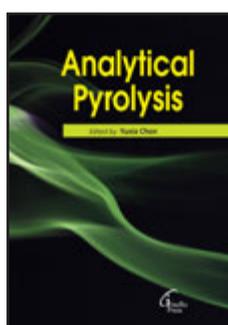


Atomic-force Microscopy and Its Applications

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 103 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.

Print ISBN: 9781682519110 | \$165 | 2023 | Hardcover

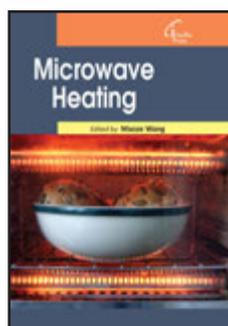


Analytical Pyrolysis

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.

Print ISBN: 9781682519127 | \$165 | 2023 | Hardcover

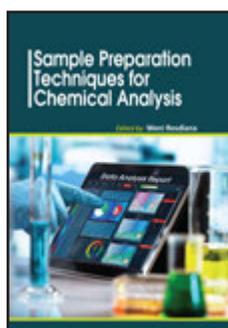


Microwave Heating

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.

Print ISBN: 9781682519134 | \$165 | 2023 | Hardcover

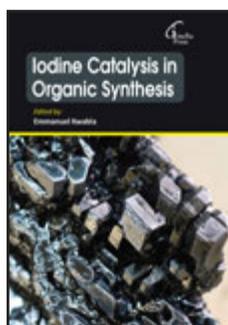


Sample Preparation Techniques for Chemical Analysis

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

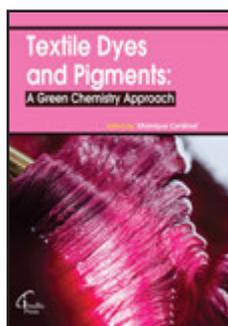


Iodine Catalysis in Organic Synthesis

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

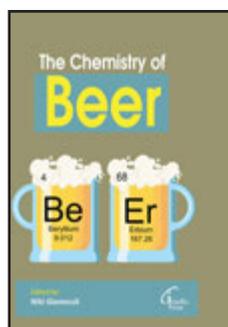


Textile Dyes and Pigments: A Green Chemistry Approach

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

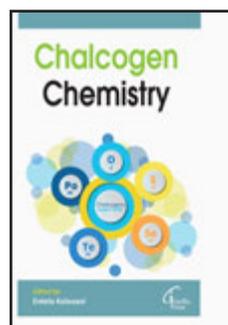


The Chemistry of Beer

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



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).

Print ISBN: 9781682519097 | \$165 | 2023 | Hardcover

CHEMISTRY

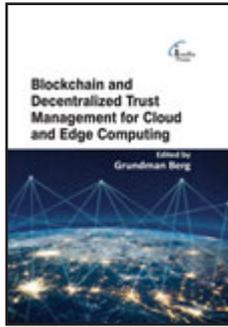


Biodegradable Plastics

Editor: Arouna Adama

Biodegradation is the property of a material that can be completely converted into water, CO₂, 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.

Print ISBN: 9781682519141 | \$165 | 2023 | Hardcover

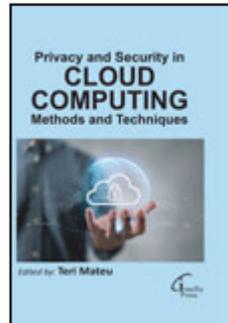


Blockchain and Decentralized Trust Management for Cloud and Edge Computing

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.

Print ISBN: 9781682519691 | \$165 | 2024 | Hardcover

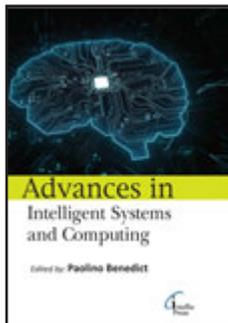


Privacy and Security in Cloud Computing: Methods and Techniques

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.

Print ISBN: 9781682519738 | \$165 | 2024 | Hardcover

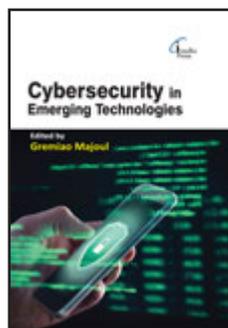


Advances in Intelligent Systems and Computing

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.

Print ISBN: 9781682519707 | \$165 | 2024 | Hardcover

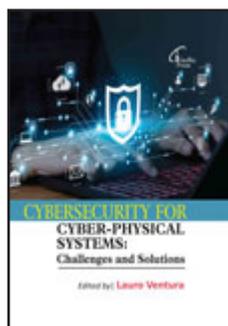


Cybersecurity in Emerging Technologies

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.

Print ISBN: 9781682519714 | \$165 | 2024 | Hardcover



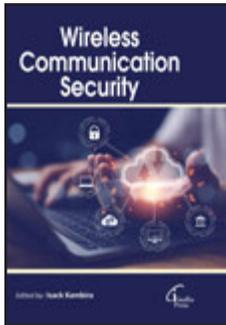
Cybersecurity for Cyber-Physical Systems: Challenges and Solutions

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.

Print ISBN: 9781682519721 | \$165 | 2024 | Hardcover

COMPUTER AND INFORMATION SCIENCE

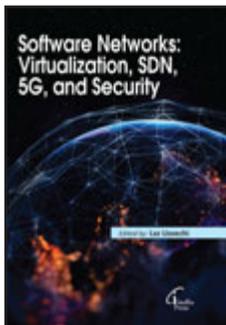


Wireless Communication Security

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.

Print ISBN: 9781682519394 | \$165 | 2023 | Hardcover

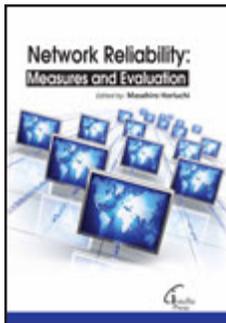


Software Networks: Virtualization, SDN, 5G, and Security

Editor: Laz Uzoechi

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.

Print ISBN: 9781682519400 | \$165 | 2023 | Hardcover

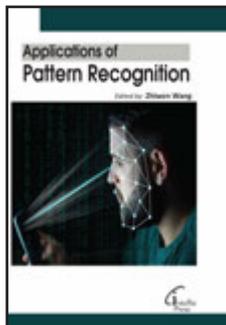


Network Reliability: Measures and Evaluation

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.

Print ISBN: 9781682519417 | \$165 | 2023 | Hardcover

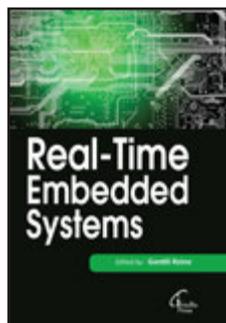


Applications of Pattern Recognition

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.

Print ISBN: 9781682519424 | \$165 | 2023 | Hardcover

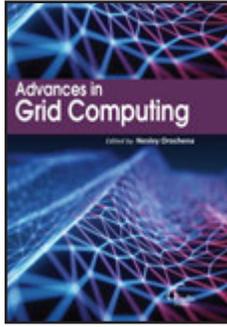


Real-Time Embedded Systems

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.

Print ISBN: 9781682519431 | \$165 | 2023 | Hardcover



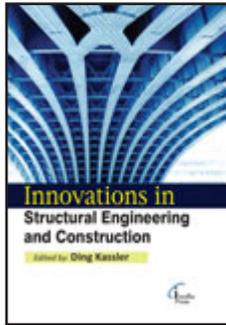
Advances in Grid Computing

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.

Print ISBN: 9781682519448 | \$165 | 2023 | Hardcover

ENGINEERING AND TECHNOLOGY

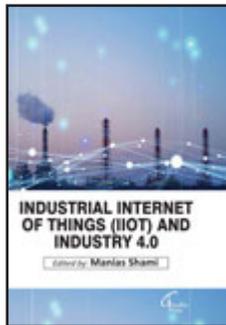


Innovations in Structural Engineering and Construction

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



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

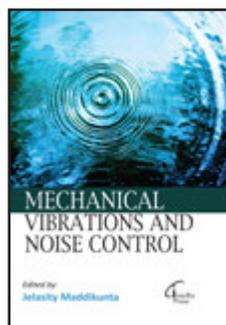


Innovative Materials and Manufacturing Techniques for Engineering Applications

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

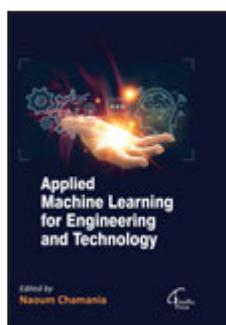


Mechanical Vibrations and Noise Control

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 vibrations and noise in mechanical systems for improved performance and comfort.

Print ISBN: 9781682519769 | \$165 | 2024 | Hardcover

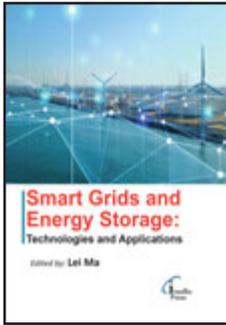


Applied Machine Learning for Engineering and Technology

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



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

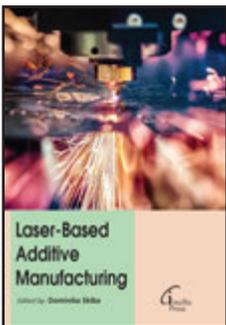


Emerging Trends in Mechatronics

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

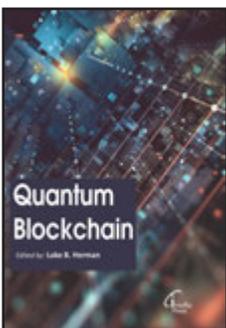


Laser-Based Additive Manufacturing

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

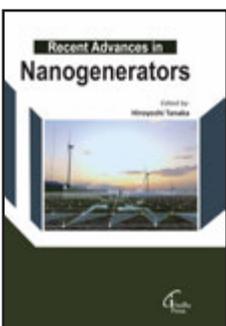


Quantum Blockchain

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 as 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



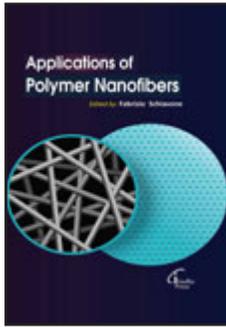
Recent Advances in Nanogenerators

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

ENGINEERING AND TECHNOLOGY

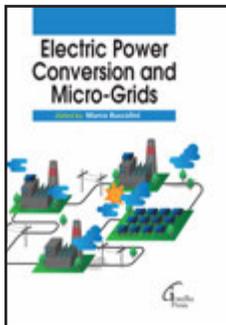


Applications of Polymer Nanofibers

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

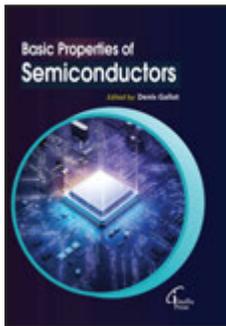


Electric Power Conversion and Micro-Grids

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.

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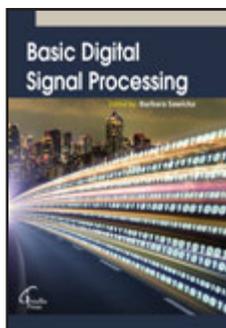


Basic Properties of Semiconductors

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



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-centered, the text provides a self-contained introduction to the theory of digital signal processing.

Print ISBN: 9781682519271 | \$165 | 2023 | Hardcover



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



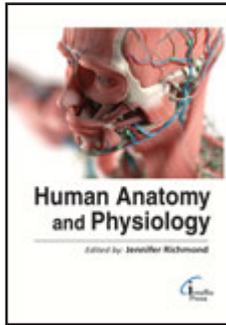
Nanotechnology in Intelligent Food Packaging

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

HEALTH SCIENCE

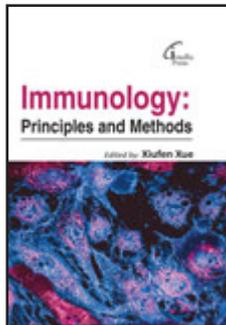


Human Anatomy & Physiology

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

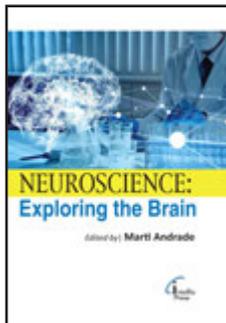


Immunology: Principles and Methods

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

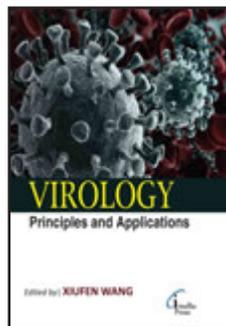


Neuroscience: Exploring the Brain

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

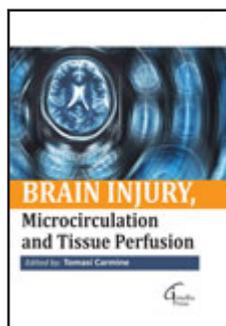


Virology: Principles and Applications

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

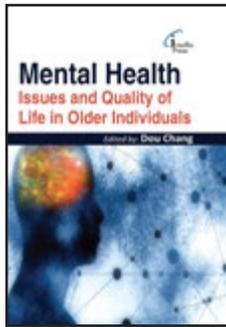


Brain Injury, Microcirculation and Tissue Perfusion

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.

Print ISBN: 9781682519844 | \$165 | 2024 | Hardcover

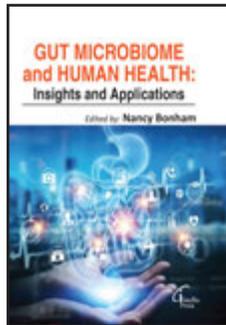


Mental Health Issues and Quality of Life in Older Individuals

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



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.

Print ISBN: 9781682519868 | \$165 | 2024 | Hardcover

LIFE SCIENCE

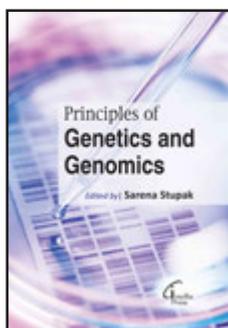


Conservation Biology: Foundations, Concepts, Applications

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

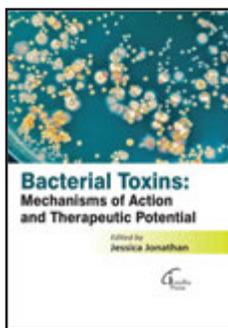


Principles of Genetics and Genomics

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

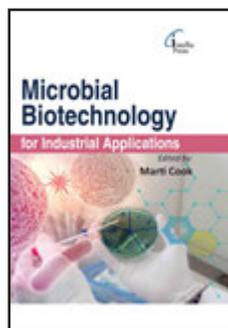


Bacterial Toxins: Mechanisms of Action and Therapeutic Potential

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 targeted 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

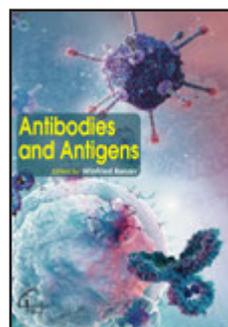


Microbial Biotechnology for Industrial Applications

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

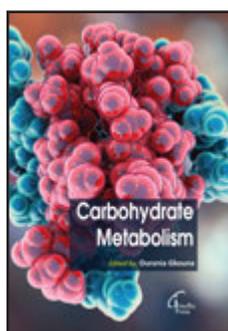


Antibodies and Antigens

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

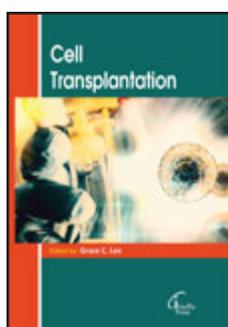


Carbohydrate Metabolism

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

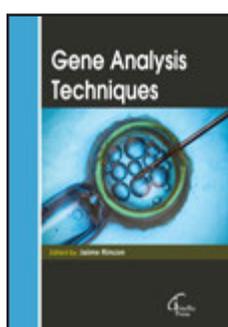


Cell Transplantation

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

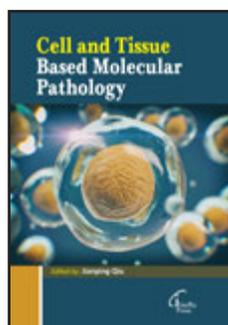


Gene Analysis Techniques

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.

Print ISBN: 9781682519004 | \$160 | 2023 | Hardcover

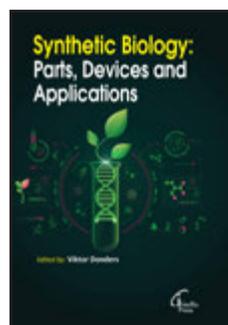


Cell and Tissue Based Molecular Pathology

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

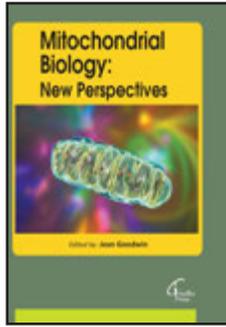


Synthetic Biology: Parts, Devices and Applications

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

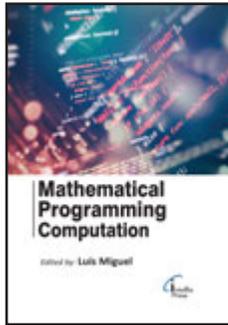


Mitochondrial Biology: New Perspectives

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

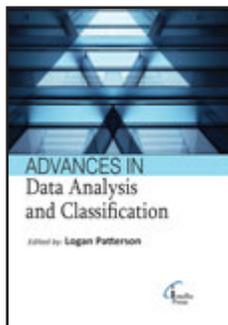


Mathematical Programming Computation

Editor: Luís 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.

Print ISBN: 9781682519912 | \$165 | 2024 | Hardcover

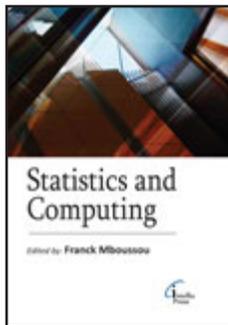


Advances in Data Analysis and Classification

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.

Print ISBN: 9781682519929 | \$165 | 2024 | Hardcover

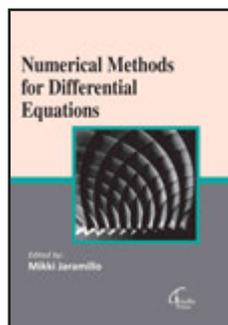


Statistics and Computing

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.

Print ISBN: 9781682519936 | \$165 | 2024 | Hardcover

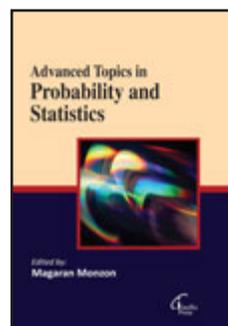


Numerical Methods for Differential Equations

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.

Print ISBN: 9781682519943 | \$165 | 2024 | Hardcover



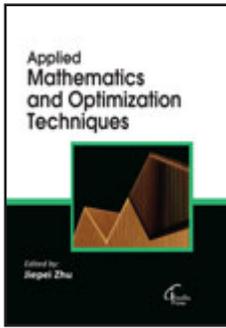
Advanced Topics in Probability and Statistics

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.

Print ISBN: 9781682519950 | \$165 | 2024 | Hardcover

MATHEMATICS AND STATISTICS

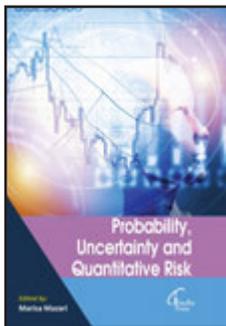


Applied Mathematics and Optimization Techniques

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.

Print ISBN: 9781682519967 | \$165 | 2024 | Hardcover

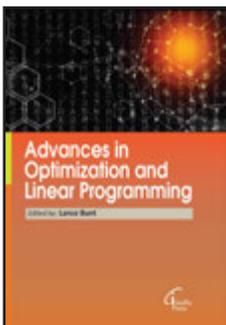


Probability, Uncertainty and Quantitative Risk

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.

Print ISBN: 9781682519202 | \$165 | 2023 | Hardcover

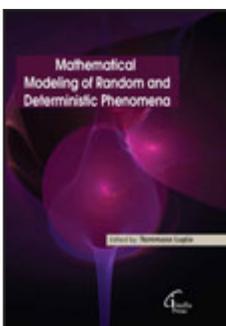


Advances in Optimization and Linear Programming

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.

Print ISBN: 9781682519219 | \$165 | 2023 | Hardcover

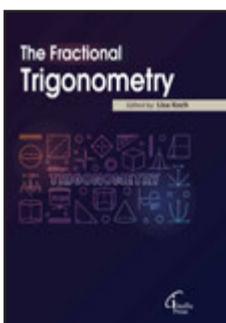


Mathematical Modeling of Random and Deterministic Phenomena

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.

Print ISBN: 9781682519226 | \$165 | 2023 | Hardcover

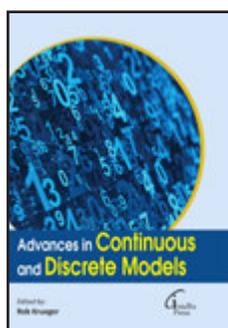


The Fractional Trigonometry

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.

Print ISBN: 9781682519233 | \$165 | 2023 | Hardcover

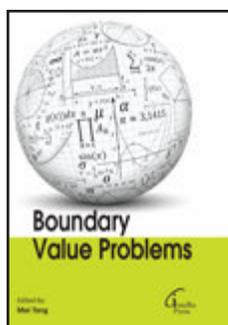


Advances in Continuous and Discrete Models

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.

Print ISBN: 9781682519158 | \$165 | 2023 | Hardcover

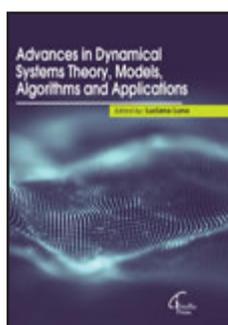


Boundary Value Problems

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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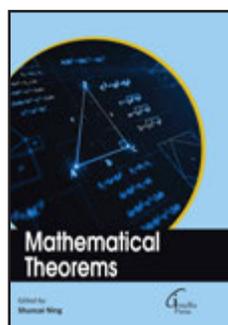


Advances in Dynamical Systems Theory, Models, Algorithms and Applications

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.

Print ISBN: 9781682519172 | \$165 | 2023 | Hardcover

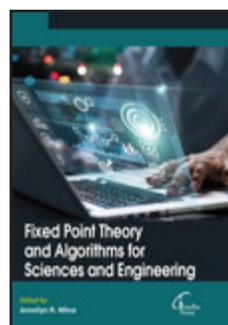


Mathematical Theorems

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.

Print ISBN: 9781682519189 | \$165 | 2023 | Hardcover



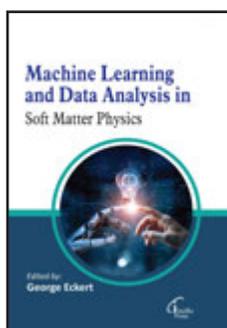
Fixed Point Theory and Algorithms for Sciences and Engineering

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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PHYSICS

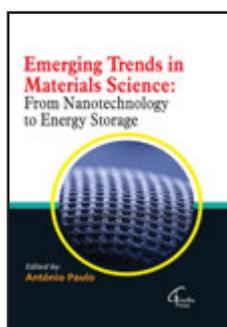


Machine Learning and Data Analysis in Soft Matter Physics

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

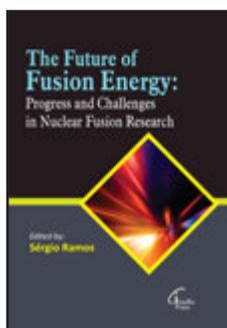


Emerging Trends in Materials Science: From Nanotechnology to Energy Storage

Editor: António 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

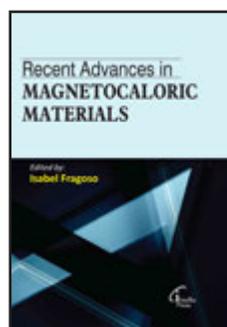


The Future of Fusion Energy: Progress and Challenges in Nuclear Fusion Research

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

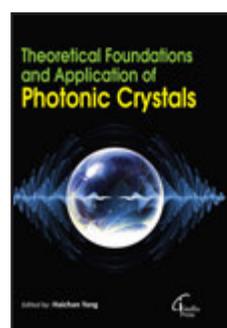


Recent Advances in Magnetocaloric Materials

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

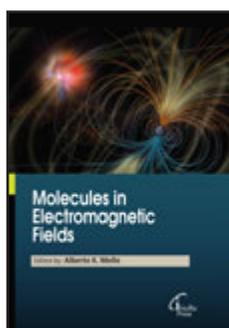


Theoretical Foundations and Application of Photonic Crystals

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

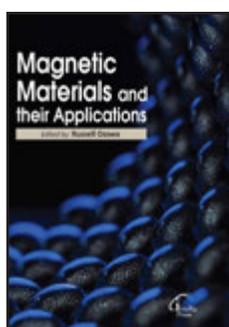


Molecules in Electromagnetic Fields

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 non-uniform 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

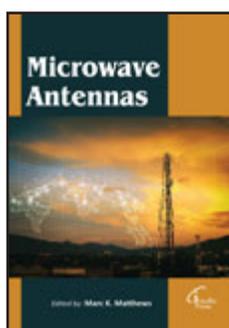


Magnetic Materials and their Applications

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

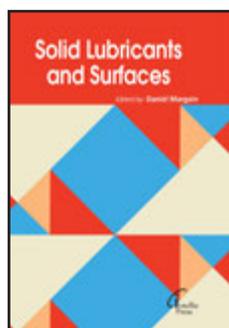


Microwave Antennas

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.

Print ISBN: 9781682519363 | \$165 | 2023 | Hardcover



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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