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CATALOG
2021

- ▶ Agriculture and Plant Science
- ▶ Animal and Veterinary Science
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- ▶ Computer and Information Science
- ▶ Engineering and Technology
- ▶ Life Sciences
- ▶ Mathematics and Physics

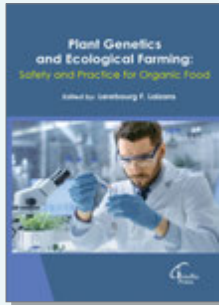


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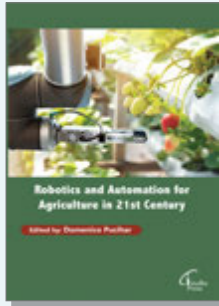


Plant Genetics and Ecological Farming: Safety and Practice for Organic Food

Editor: Lerebourg F. Laizans

The world is facing serious societal challenges in the areas of food, the environment, energy and health. Historically, advancements in plant genetics have provided the new knowledge and technology needed to address these challenges. Organic farming is continued to believe to be a sustainable food production method of agriculture that is environmentally friendly and that produces healthy food. The current book highlight and evaluate the potential of genetic engineering for improvement of organic farming. This book reviews risks and opportunities related to a broad range of sustainability domains associated with increasing yields in organic agriculture. It reviews the implications of their implementation for biodiversity, greenhouse gas emissions, nutrient losses, soil fertility, animal health and welfare, human nutrition and health and farm profitability.

Print ISBN: 978-1-68251-693-5 | \$155 | 2021 | Hardcover



Robotics and Automation for Agriculture in 21st Century

Editor: Domenico Pucihar

Continuing progress in agricultural mechanization and automation technology in recent decades has led agriculture to an era of robotic farming. Agricultural robots, in general, can be defined as a line of intelligent machines that exhibits certain behaviors similar to human operators, such as the capacity of perception, reasoning and manipulation in agricultural settings to perform predetermined operations and tasks with or without human supervision. Such robotic technologies have a potential to further reduce the use of labor and increase the precision and efficiency of production inputs thus contributing to increased agricultural productivity and long-term sustainability of the industry. This book is intended to cover state of the art information on safe, efficient, and economical agricultural production, and to advance the state-of-the-art in sensing, mobility, manipulation, and management technologies applied to the production of grain, fruit, vegetable, and other agricultural products.

Print ISBN: 978-1-68251-765-9 | \$155 | 2021 | Hardcover

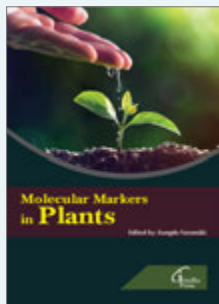


Sensing and Automation in Tree Fruit Production

Editor: Linh Colantoni

Agriculture is the backbone of society, providing food, feed, fiber and fuel that all humans depend on to live on. Automation of agriculture is an innovation that can reduce resource utilization and help meet the growing demand for more productivity and higher quality food production. Studies have shown great potential for the use of mechanical or robotic tree systems with compatible canopy training, including stand-alone support platforms and mechanical / robotic harvesting. Automation of agriculture is an innovation that can reduce resource utilization and help meet the growing demand for more productivity and higher quality food production. This book focuses on applications of automation to the important industry of tree fruit production. The book also summarizes the potential opportunities for automatic pruning with machine-friendly modern tree architectures, previous studies on sensor development, and efforts to develop and deploy mechanical/robotic systems for automated branch pruning.

Print ISBN: 978-1-68251-766-6 | \$155 | 2021 | Hardcover

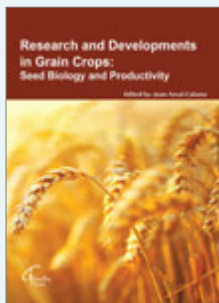


Molecular Markers in Plants

Editor: Eungdo Varamäki

Genetic markers are held for a detailed investigation of complex questions in quantitative biology. The advent of DNA markers, greatly expanding the number of genetic markers available, is allowing researchers to begin to tap the potential of this technology, to the benefit of both basic biology and agricultural productivity. Molecular markers are widely employed in plant breeding. DNA markers are being used for the acceleration of plant selection through marker-assisted selection (MAS). This book covers state of the art on the current status of marker development technologies for crop improvements. The book addresses the applications of DNA markers to plant breeding. Different types of molecular markers have been developed and advancement in sequencing technologies has geared crop improvement. This book is aimed to keen to students and early researchers with a little or no knowledge of molecular markers recent developments in molecular markers and their applications in plant breeding.

Print ISBN: 978-1-68251-779-6 | \$155 | 2021 | Hardcover



Research and Developments in Grain Crops: Seed Biology and Productivity

Editor: Joan Areal-Calama

Grain crops are energy sources containing carbohydrates, proteins, and fats. Besides being the energy providing macromolecules, grain crops also contain health-supporting compounds, including dietary fibers, antioxidants, vitamins, and minerals. Cultivation of grain crops has been rightly recognized as one of the main drivers in shaping human civilizations. The seed is the harvested organ in grain crops and, consequently, the accumulation of dry matter by the seed is an important component of the yield production process. The growth of individual seeds, usually characterized by the rate and duration of growth, is, at least partially, controlled by the seed itself. This book will focus on researchers and technologists from academia and industry, providing points for interactive and fruitful discussion on this fascinating topic.

Print ISBN: 978-1-68251-805-2 | \$155 | 2021 | Hardcover



Competitiveness of Global Agriculture

Editor: Houda Mezlini

The issues of food security and agricultural competitiveness are central to agricultural and food policy making in the 21st century. Competition issues in agricultural and food markets have attracted increasing interest from policy-makers and academics in recent years; yet, when designing government policies and potential reforms of existing policies, how and why competition may matter is typically ignored. The issues, constraints, and challenges related to competitiveness and food security have not been fully understood or studied in the context of policy making at the national and global levels. This book integrates food security and agricultural competitiveness issues and treat them together. The book presents coverage of policy recommendations and lessons on how to increase agricultural competitiveness and food security in the long run.

Print ISBN: 978-1-68251-805-2 | \$155 | 2021 | Hardcover



Microbes for Sustainable Agriculture

Editor: W. Y. Kim

The farmers currently utilized huge amount of chemical fertilizers and pesticides to enhance the food production and disease management. These chemical fertilizers not only affect the texture and productivity of soil but also the health of plants, humans, and environment. The book stresses that, in order to meet the needs of our rapidly growing population, it is imperative to increase agricultural productivity through the use of microbes. This book is a compilation of research and reviews from different countries and covers contemporary with future prospective for sustainable development of agriculture.

Print ISBN: 978-1-68251-655-3 | \$155 | 2020 | Hardcover

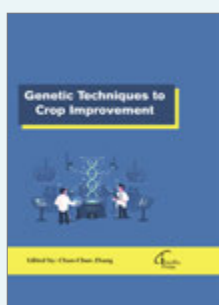


Genetic Resources, Chromosome Engineering, and Crop Improvement

Editor: Dr. R K Gulliver

Crop improvement, the engineering of plants for the benefit of humanity, is as old as agriculture itself. Genetic engineering enables molecular biologists to reshuffle genes in combinations not possible in nature, opening up a vast new source of genetic diversity for crop improvement. Gene-transfer techniques are far less accessible than somatic cell genetics. Their successful application will depend upon breakthroughs in the understanding of gene expression and regulation, as well as increased knowledge of plant physiology, biochemistry, and development. Covering various aspects of crop improvement, this book is intended to assess the interrelationships between conventional plant breeding and genetic engineering.

Print ISBN: 978-1-68251-652-2 | \$155 | 2020 | Hardcover

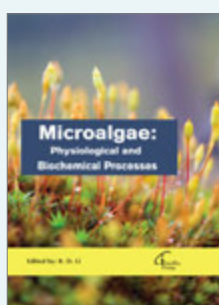


Genetic Techniques to Crop Improvement

Editor: Chun-Chun Zhang

Adverse environmental conditions, such as drought, flooding, and extreme heat and so on, affect crop yields more than pests and diseases. Thus, a major goal of plant scientists is to find ways to maintain high productivity under stress as well as developing crops with enhanced nutritional value. Genetically-modified (GM) crops can prove to be powerful complements to those produced by conventional methods for meeting the worldwide demand for quality foods. This book provides comprehensive information on the latest tools and techniques of molecular genetics and their applications in crop improvement.

Print ISBN: 978-1-68251-653-9 | \$155 | 2020 | Hardcover



Microalgae: Physiological and Biochemical Processes

Editor: R. D. Li

The biodiversity of microalgae is enormous and they represent an almost untapped resource. Microalgae have recently attracted considerable interest worldwide, due to their extensive application potential in the renewable energy, biopharmaceutical, and nutraceutical industries. Microalgae are renewable, sustainable, and economical sources of biofuels, bioactive medicinal products, and food ingredients. This volume is an authoritative and contemporary review of current research on microalgae. The book will be essential reading for advanced undergraduates, postgraduates and researchers in the field.

Print ISBN: 978-1-68251-654-6 | \$155 | 2020 | Hardcover

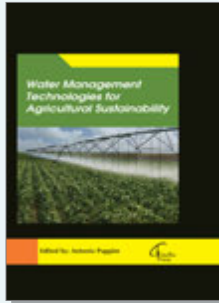


Soil Health Management and Sustainable Agriculture

Editor: Dr. Rodrigo Mandis

Soil health is presented as an integrative property that reflects the capacity of soil to respond to agricultural intervention, so that it continues to support both the agricultural production and the provision of other ecosystem services. The management goal for a healthy agricultural soil is to supply the nutrients needed for optimal plant growth in the right quantity and at the right time while minimizing nutrient losses to the surrounding environment. This book covers current understanding of soil structure and dynamics which form the foundation for effective soil management and will be of immense interest to those involved with agricultural microbiology, including students, instructors, and researchers.

Print ISBN: 978-1-68251-584-6 | \$155 | 2020 | Hardcover

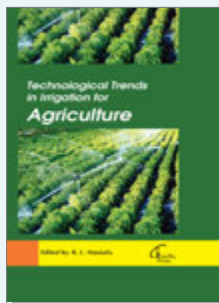


Water Management Technologies for Agricultural Sustainability

Editor: Antonio Puppim

Water is considered as the most critical resource for sustainable agricultural development worldwide. Irrigated areas will increase in forthcoming years, while fresh water supplies will be diverted from agriculture to meet the increasing demand of domestic use and industry. Agriculture must provide this increase against the decreasing availability of and competition for land and water from other uses, whether non-food crops, urbanization or industrial development. This book fulfills the need for an up-to-date comprehensive literature on irrigation water management technologies for students of agriculture.

Print ISBN: 978-1-68251-585-3 | \$155 | 2020 | Hardcover



Technological Trends in Irrigation for Agriculture

Editor: R. L. Maniatis

Agriculture forms the backbone of livelihood for majority of the population especially rural households. Efficient irrigation decreases the amount of time required for providing water to a crop area due to the regulated flow of water in the irrigation operation. The use of efficient irrigation technology therefore helps farmers in vulnerable regions to adapt and strengthen their resilience to climate change.

This book gives state of the art coverage of new techniques and the applications of this area; a practical guide on the use of pressurized irrigation techniques to farmers, irrigation technicians, and extension workers in the field.

Print ISBN: 978-1-68251-586-0 | \$155 | 2020 | Hardcover



Nanotechnology in the Agri-Food Sector

Editor: Dr. B Simon

Nanotechnology applications are currently being researched, tested and in some cases already applied across the entire spectrum of food technology, from agriculture to food processing, packaging and food supplements. Nanotechnology has great potential, as it can enhance the quality of life through its applications in various fields like agriculture and the food system. Around the world it has become the future of any nation. This book focuses on the applications of nanotechnology in agriculture sector improvement, especially in the area of plant nutrition and plant protection.

Print ISBN: 978-1-68251-587-7 | \$155 | 2020 | Hardcover



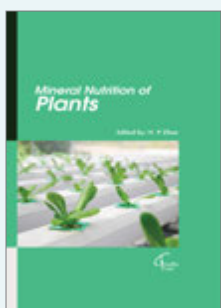
Physiology and Behavior of Plants

Editor: N.E. Passiatore

The type of study in which studies about the different process in a plant that is responsible for the growth, development, and production is called crop physiology. Crop physiology is important in agriculture as well as horticultural crops because as it studies the entire plant and its communities. Understanding plant physiology is the key to successful agriculture.

Providing perspective and knowledge on the biological behavior and potentials of the plants, this book will be of greater use for the post-graduate students, researchers, physiologist and biotechnologist to sustain the plant growth and development.

Print ISBN: 978-1-68251-588-4 | \$155 | 2020 | Hardcover

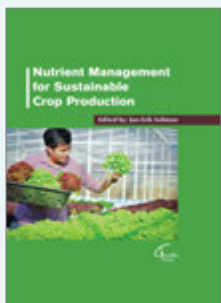


Mineral Nutrition of Plants

Editor: N P Zhao

Minerals are taken up by plant roots from the soil solution in ionic form which is mediated by specific transport proteins. They are important constituents of protoplasm and cell wall e.g., sulphur occurs in proteins, phosphorus in nucleoproteins and adenosine phosphates, magnesium in chlorophyll, and calcium pectate in the middle lamella. Recently, important progress has been achieved in identifying transport and regulatory mechanisms for the uptake and distribution of nutrients. In this book we will discuss about the role of mineral elements in plants.

Print ISBN: 978-1-68251-589-1 | \$155 | 2020 | Hardcover

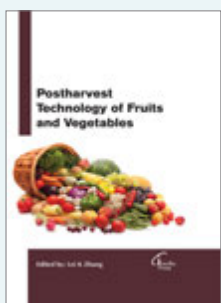


Nutrient Management for Sustainable Crop Production

Editor: Jan-Erik Soliman

Nutrient management is a critical component of all soil-plant production systems. Nutrient management involves using crop nutrients as efficiently as possible to improve productivity while protecting the environment. The key principle behind nutrient management is balancing soil nutrient inputs with crop requirements. With the integration of theoretical and applied knowledge, this book provides a practical understanding of how any type of production system can successfully adopt integrated nutrient management (INM).

Print ISBN: 978-1-68251-637-9 | \$155 | 2020 | Hardcover



Postharvest Technology of Fruits and Vegetables

Editor: Lei K Zhang

It is difficult to preserve fruits and vegetables for a long time. Post-harvest losses in fruits and vegetables are very high (20-40%). About 10-15% fresh fruits and vegetables shrivel and decay, lowering their market value and consumer acceptability. Minimizing these losses can increase their supply without bringing additional land under cultivation. Improper handling and storage cause physical damage due to tissue breakdown. The current book covers best practices for preserving quality and consumer appeal of fresh fruits and vegetables.

Print ISBN: 978-1-68251-638-6 | \$155 | 2020 | Hardcover



Seedborne Diseases and Their Control

Editor: Nicola A Ketty

Seed is the basic unit in crop production technology. It has attracted the agriculturist even in early days. Seed plays a vital role in associating micro-organisms which prove hazardous for the seed or new plant created from it. Important seed borne pathogen/ microorganism are various fungi, bacteria, viruses, nematodes etc. In this book, information about different seed borne diseases by eminent researchers and field specialists. This book will be of interest to students, researchers, and people associated with seed production activities.

Print ISBN: 978-1-68251-639-3 | \$155 | 2020 | Hardcover

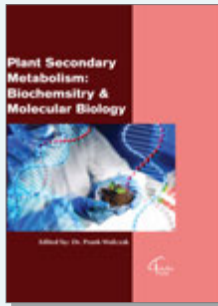


Plants, Biotechnology and Agriculture

Editor: Dr. Simmy Dale

The aims of applied plant science research for agriculture are to enhance crop yields, improve food quality, and preserve the environment where human beings and other organisms live. Furthermore, food quality will become more important than crop productivity in a wealthy society. From an economic perspective, plant biotechnology offers significant potential for the seed, agrochemical, food processing, and specialty chemical and pharmaceutical industries to develop new products and manufacturing processes. This book covers the foundations for plant biotechnology by outlining the biological aspects including gene structure and expression, and the basic procedures in plant biotechnology of genomics, metabolomics, and transcriptomics. It intends to cover readers with a modern perspective on plants both as biological organisms and useful resources for people to exploit.

Print ISBN: 978-1-68251-640-9 | \$155 | 2020 | Hardcover



Plant Secondary Metabolism: Biochemistry & Molecular Biology

Editor: Dr. Prank Walczak

Chemical protection plays a decisive role in the resistance of plants against pathogens and herbivores. Secondary metabolites are chemicals produced by plants for which no role has yet been found in growth, photosynthesis, reproduction, or other “primary” functions. There is increasing evidence that plant secondary metabolites cause qualitative and quantitative shifts in favor of microorganisms that can fulfill defined functions. This book addresses ecological and evolutionary aspects of plant secondary metabolite in plant interactions and the roles endogenous and exogenous microbes may play in preferentially symbiotic interactions, other than mycorrhizal partnerships or rhizobial nodulation.

Print ISBN: 978-1-68251-641-6 | \$155 | 2020 | Hardcover

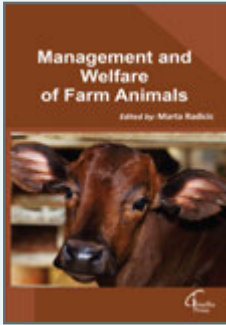


Medicinal Plants: Chemistry and Properties

Editor: R S Janom

Medicinal herbs or plants have been known to be an important potential source of therapeutics or curative aids. The use of medicinal plants has attained a commanding role in health system all over the world. Medicinal plants play vital roles in disease prevention and their promotion and use fit into all existing prevention strategies. However, conscious efforts need to be made to properly identify, recognise and position medicinal plants in the design and implementation of these strategies. This book presents interesting and emerging perspectives in the field of medicinal plants.

Print ISBN: 978-1-68251-642-3 | \$155 | 2020 | Hardcover



Management and Welfare of Farm Animals

Editor: Marta Radicic

Historical changes in the demand for livestock products have been largely driven by human population growth, income growth and urbanization and the production response in different livestock systems has been associated with science and technology as well as increases in animal numbers. This book attempts to cover state of the art research and developments in livestock production systems globally in relation to recent trends. The key drivers underpinning past increases in livestock production are outlined, and the status of both intensive and extensive production systems in the developed and developing world is described. It also summarizes the advances in science and technology that have contributed to historical increases in livestock production, and indicates where potential remains, in relation to livestock genetics and breeding, livestock nutrition and livestock disease management.

Print ISBN: 978-1-68251-726-0 | \$155 | 2021 | Hardcover



Veterinary Microbiology and Microbial Disease

Editor: Dragana Pérez-Pérez

Veterinary microbiology in farm animals is concerned with the etiology, pathogenesis, diagnosis and treatment of infection in the individual and with the epidemiology, prevention, and control of infections in the community. It includes microbial diseases of animals that supply food or other products. It also deals with microbial diseases of wild animals for their interrelation with farmed animals. The book encompasses the immunology, microbiology, virology, vaccinology, and epidemiology of animal infectious diseases, especially zoonotic infections. The role of environmental factors in disease emergence and diseases that undermine the sustainability of poultry, livestock, and aquaculture industries are emphasized. Research on the development of strategies that will lead to the prevention and control of animal diseases are also given. This book will serve as an ideal reference for veterinary students, and practitioners who require more guidance with veterinary science.

Print ISBN: 978-1-68251-727-7 | \$155 | 2021 | Hardcover

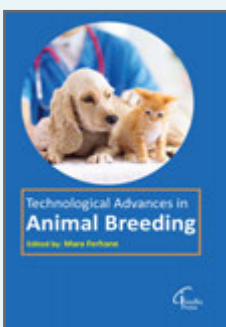


Current Trends in Theriogenology

Editor: Janni Lapinskiene

Theriogenology is the branch of veterinary medicine that focuses on reproduction, including the physiology and pathology of male and female reproductive systems in animals and the clinical practice of veterinary obstetrics, and gynecology. Reproductive physiology and procreation has always fascinated human kind. Therefore, it is not surprising that scientific research in reproduction is one of the oldest and most established field in biology. The book contains research and reviews covering all areas of animal reproduction, including studies on male and female reproductive physiology, sexual differentiation, endocrinology, gamete physiology and preservation, in vitro fertilization, hormonal manipulation of reproduction, pregnancy physiology, reproductive pathology, and diagnosis and treatment of reproductive disorders.

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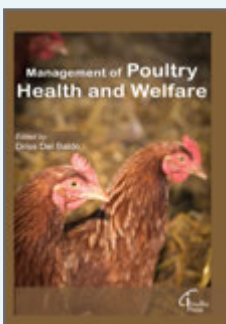


Technological Advances in Animal Breeding

Editor: Mara Ferhane

Animal researchers are currently formulating their trust on genetic markers. In breeding, transgenic animals are created to improve qualitative and quantitative traits in livestock and to reduce susceptibility to diseases. A variety of methods have been developed to produce transgenic animals. The book covers state of the art topics on animal breeding from, quantitative genetic principles, selection, mating systems and the breeding methods used for improvement of dairy cattle and buffaloes and sheep, goat swine and poultry. The book covers both the theory and research developments in this field with extensive coverage through illustrative examples. This book explores some of the key institutional transformations in livestock breeding associated with the increasing significance of genetic techniques, situating this within an assessment of an emerging agricultural bioeconomy.

Print ISBN: 978-1-68251-769-7 | \$155 | 2021 | Hardcover

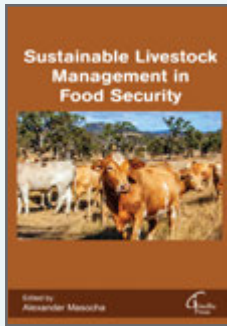


Management of Poultry Health and Welfare

Editor: Driss Del Baldo

Poultry is produced at world-wide scale. The production is expected to continue to increase in order to meet the demand for food for an ever increasing human population. The challenge facing poultry scientists and industry is therefore to produce enough poultry meat in the most efficient manner. This book deals with state of the art research and reviews on the major health and welfare aspects of poultry production. The egg and poultry meat production practices are discussed, with the main emphasis on housing and management requirements, feed composition and the use of veterinary prophylactic and therapeutic drugs. This book will help future researchers and industry to identify alternative feed ingredients having properties like prebiotics, probiotics, organic acids, and exogenous enzymes.

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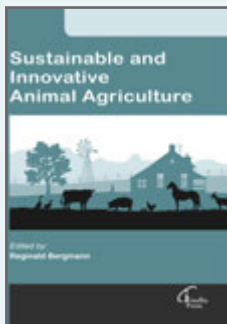


Sustainable Livestock Management in Food Security

Editor: Alexander Masocha

Animal husbandry plays a key role in the food security, providing products rich in high-quality proteins and micro-nutrients and is vital for millions of households that depend on livestock for their livelihoods to generate income and have access to basic services. The book illustrates how livestock continually contribute essentially to both survival and nutritional health. Although land, water, labor etc. are, no doubt, extremely important for food production and play pivotal role in food security of the people but livestock cannot be ignored in this regard. The book also presents the past and projected situation of the sector, its potentials and challenges, with a special focus on the particular characteristics of different livestock systems.

Print ISBN: 978-1-68251-771-0 | \$155 | 2021 | Hardcover



Sustainable and Innovative Animal Agriculture

Editor: Reginald Bergmann

The demand for food from animal agriculture is anticipated to nearly double by 2050. The long-term sustainability of animal agriculture is examined in an ecological context. Because most arable land worldwide is already in use, and water and energy also are limiting, increased production of food will require a substantial increase in efficiency. Therefore, technologic developments are the main research area for animal productivity and sustainability. Many technologic equipment and tools made animal husbandry easier and comfortable. In animal husbandry management decisions that need to be done daily are configured according to the correctness of the decisions to be made. The current book is aimed to highlight the importance of animals to achieving food security in terms of their valuable contributions to agricultural sustainability, and the high nutritional value of animal products in the diet. This book deals with valuable information on the latest challenges and key innovations affecting the animal husbandry.

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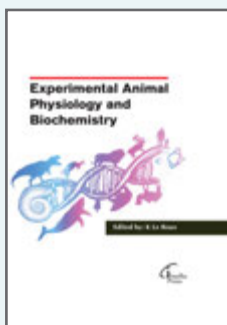


Consumer Behaviour: Implications for Marketing Strategy

Editor: K.R. Reznikoff

Understanding consumer behavior is the initiation of the creation of an accurate marketing strategy. Marketers need to understand the buying behaviour of consumers for their products to do well. It is really important for marketers to understand what prompts a consumer to purchase a particular product and what stops him from buying. Covering different approaches of consumer behaviour, the book incorporates the latest issues in behavioural, psychological and sociological learning alongside new areas of research.

Print ISBN: 978-1-68251-595-2 | \$155 | 2020 | Hardcover

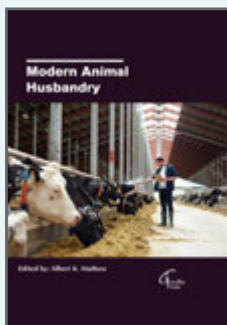


Experimental Animal Physiology And Biochemistry

Editor: K Le Roux

Physiology is an experimental scientific discipline and is of central importance in medicine and related health sciences. It provides a thorough understanding of normal body function, enabling more effective treatment of abnormal or disease states. Both plant biologists and animal biologists seek to understand how their focal organisms have evolved to interact with the environment. Despite this similarity in goals, the differing biology of plants and animals as well as other factors has led these scientific communities to diverge. This book deals with the experimental physiology and biochemistry of animals. The book will be of valued to biologists as well as a reference tool for specialists.

Print ISBN: 978-1-68251-643-0 | \$155 | 2020 | Hardcover



Modern Animal Husbandry

Editor: Albert K. Mathew

A large number of farmers depend on animal husbandry for their livelihood. Animal husbandry deals with the feeding, breeding, housing and health care of livestock for getting maximum benefits. Production and management systems do significantly affect animal health and therewith the use of drugs and prophylactic treatments. This book provides state of the art information by the leading international experts in the field to deliver current information to professionals associated with the modern animal production.

Print ISBN: 978-1-68251-646-1 | \$155 | 2020 | Hardcover

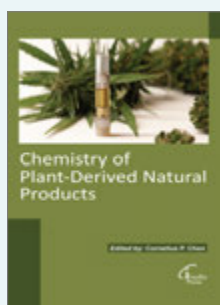


Applied Veterinary Medicine

Editor: I G Benott

Veterinarians ensure a safe food supply for people by monitoring and maintaining the health of food-producing animals. These veterinarians have made many important contributions to human health. Veterinary medicines are the most important tool for veterinarians, farmers and pet owners in order to make sure that animals remain healthy. The purpose of this book is to provide clinical reference work on Veterinary Medicine to inform clinicians and students.

Print ISBN: 978-1-68251-647-8 | \$155 | 2020 | Hardcover

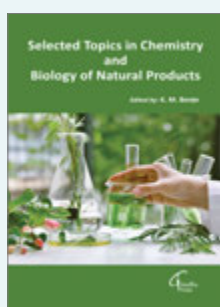


Chemistry of Plant-derived Natural Products

Editor: Cornelius P. Chen

Since time immemorial, natural products have been the backbone of traditional system of healing throughout the globe, and have also been an integral part of history and culture. Continuing discovery has also been facilitated by the recent development of new bioassay methods. These bioactive compounds are mostly plant secondary metabolites, and many naturally occurring pure compounds have become medicines, dietary supplements, and other useful commercial products. A huge number of natural product-derived compounds in various stages of clinical development highlighted the existing viability and significance of the use of natural products as sources of new drug candidates. This book provides summarized scientific evidence of the different classes of plant-derived phytochemicals, their sources, chemical structures, anticancer properties, mechanisms of action, methods of extraction, and their applications. This book will serve as a useful reference for academics, engineers and post-graduate students working in the fields of dyes and pigments, medicinal chemistry, bioremediation and environmental sciences, textiles, and materials science.

Print ISBN: 978-1-68251-697-3 | \$160 | 2021 | Hardcover

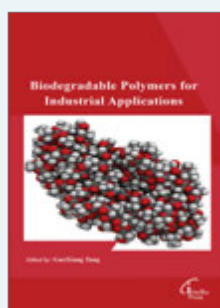


Selected Topics in Chemistry and Biology of Natural Products

Editor: K. M. Bençe

Natural products originate as secondary metabolites from a myriad of sources, including terrestrial plants, animals, marine organisms, microorganisms, terrestrial vertebrates and invertebrates. The book is focused on the identification and characterization of natural key compounds that control biologically and physiologically intriguing phenomena. The discovery of new bioactive molecules, facilitated by a deeper understanding of nature, should advance our knowledge of biological processes and lead to new strategies to treat disease. This book is aimed to summarize the chemistry and biological activities and applications of a variety of natural products and biologics and review the microbial systems used to produce these pharmaceutical compounds.

Print ISBN: 978-1-68251-698-0 | \$160 | 2021 | Hardcover



Biodegradable Polymers for Industrial Applications

Editor: GuoXiang Tang

Synthetic plastics are resistant to degradation, and consequently their disposal is fuelling an international drive for the development of biodegradable polymers. In recent years, there has been a marked increase in interest in biodegradable materials for use in packaging, agriculture, medicine, and other areas. The widespread use of biopolymers in the place of standard plastics would help to reduce the weight of waste. Therefore, biodegradable materials take part in the natural cycle "from nature to nature" and play an important role for environmental sustainability. So, in this book, the different characteristic of biodegradable polymers being used in industrial applications are covered. This book contains a collection of different biodegradation research activities where biological processes take place.

Print ISBN: 978-1-68251-717-8 | \$160 | 2021 | Hardcover

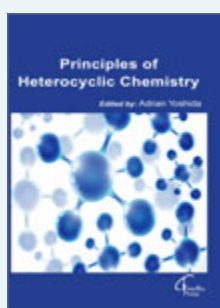


Advanced Chemistry

Editor: Yuichiro Vilcu

Chemistry plays an important and useful role towards the development and growth of a number of industries. This book intends to illustrate the applicability of the most popular and successful analytical techniques as well as the relevant quality systems and their implementation. The reader can find information such as the applicability of plasma based techniques to biological monitoring, atomic spectrometry, organometallic speciation, the clinical meaning of molybdenum, bioimaging of metals and proteomic studies of clinical samples by laser ablation inductively coupled plasma mass spectrometry, application of liquid chromatography combined with tandem mass spectrometry in clinical laboratory diagnostics, metabolomics using high-performance liquid chromatography-tandem mass spectrometry, biomarkers of stress in plasma and urine, X-ray techniques in medical research, and analytical examination of drugs in the forensic science laboratory. The chapters contained in this book are written by a team of expert from world-renowned clinical laboratory scientists, as well as physicians and research scientists.

Print ISBN: 978-1-68251-733-8 | \$160 | 2021 | Hardcover

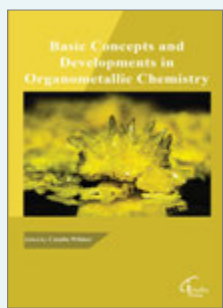


Principles of Heterocyclic Chemistry

Editor: Adrian Yoshida

Heterocyclic chemistry has its origin in organic synthesis, natural products chemistry and medicinal chemistry. Indeed most any heterocyclic chemist will also consider organic chemists and many will consider themselves to be natural products chemists and medicinal chemists as well. Heterocycles form by far the largest of classical divisions of organic chemistry and are of immense importance biologically and industrially. This book presents on the synthesis, structure, reactivity, and biological activity of heterocyclic compounds including natural products. The book is intended to focus on synthesis of various hetero cycles (three, four, five, six, seven, and eight) -membered ring, containing one or more of hetero atoms as (N, S, O), followed by electrophilic reactions to yield (aziridine, diaziridine, diazetidine, isoindole, diazine) derivative.

Print ISBN: 978-1-68251-734-5 | \$160 | 2021 | Hardcover

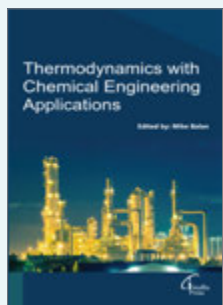


Basic Concepts and Developments in Organometallic Chemistry

Editor: Catalin Wilmer

As our understanding of organometallic structures, properties and mechanisms grows, new paths are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis, medical research, biology and materials science. Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry, where new breakthroughs are being made that are of significance to a larger scientific audience. This book tends to highlight the crucial aspects of organometallic compounds and complexes to human body both clinically and industrially. The book contains state of the art studies dealing with theoretical aspects, structural chemistry, synthesis, physical and chemical properties (including reaction mechanisms), and practical applications of organometallic compounds.

Print ISBN: 978-1-68251-735-2 | \$160 | 2021 | Hardcover

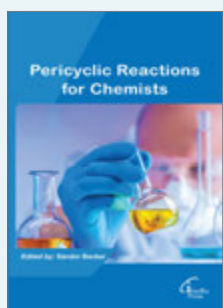


Thermodynamics with Chemical Engineering Applications

Editor: Mike Balan

Chemical thermodynamics is the study of the interrelation of heat and work with chemical reactions or with physical changes of state within the confines of the laws of thermodynamics. It provides a bridge between the macroscopic properties of a substance and the individual properties of its constituent molecules and atoms. The current book compiles state of the art research results of physical or chemical interpretations and reviews relating to gases, liquids, solids, polymers, mixtures, solutions and interfaces. Experimental methods are described in sufficient detail to allow critical assessment of the accuracy claimed. This outlines the mathematical framework of chemical thermodynamics. This book will serve as valuable reference for students of physics, biochemistry and materials science as well as the prospective researcher and those involved in funding chemical research.

Print ISBN: 978-1-68251-736-9 | \$160 | 2021 | Hardcover

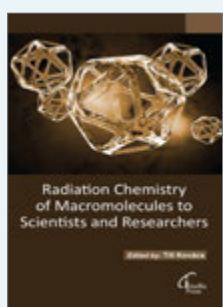


Pericyclic Reactions for Chemists

Editor: Sándor Becker

Pericyclic reactions are seminal processes in organic synthesis. They have long been utilized to form multiple bonds and stereo centers in a single operation, and have found application in the total synthesis of natural products and a multitude of other endeavors. The current book covers contributions from renowned international researchers in organic synthesis in which pericyclic reactions feature as key transformations. This book aims at explaining the different types of pericyclic reactions, the stereochemistry of the same and simple rules to predict the feasibility of the reaction and the stereo chemical outcome. The book provides complete and systematic coverage of pericyclic reactions for researchers and students dealing with the field of pharmacy and organic chemistry.

Print ISBN: 978-1-68251-737-6 | \$160 | 2021 | Hardcover

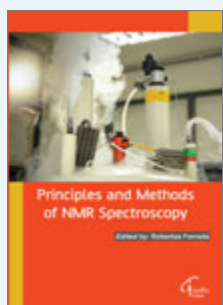


Radiation Chemistry of Macromolecules to Scientists and Researchers

Editor: Till Kovács

There is significant literature on the effects of ionizing radiation on matter. In particular, the irreversible effects of radiation are caused by the ionization of valence electrons. In all cases, the irradiation of macromolecules in liquid solution culminated in much greater effects than the irradiation of the same material when it was dry or frozen. This book presents a compilation of scattered information that discusses radiation chemistry of specific systems. It focuses on the fundamental chemical processes and the changes in physical properties that give rise to many different applications of macromolecules. This book also covers the effects of ionizing radiation on biological macromolecules: proteins, nucleic acids, lipids, and polysaccharides. The book will serve as valuable guide to scientists and researchers dealing with the fields of nuclear biology, nuclear science, microchemistry, and cellular biology.

Print ISBN: 978-1-68251-738-3 | \$160 | 2021 | Hardcover

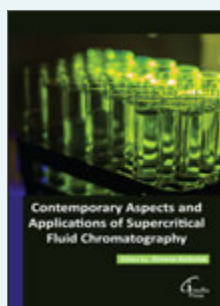


Principles and Methods of NMR Spectroscopy

Editor: Robertas Ferrada

Nuclear magnetic resonance (NMR) spectroscopy is one of the most significant analytical techniques that has been developed in the past few decades for determining the content and purity of a sample as well as its molecular structure. NMR is also the most powerful technique used to obtain structural information. NMR spectroscopies are used for analyses of all organic compounds frequently. This book contains research and developments related to the theory and application of NMR spectroscopy. The book covers comprehensive information on applications in all of these areas and in related subjects, as well as in-depth treatments of the fundamental theory of and instrumental developments in NMR spectroscopy.

Print ISBN: 978-1-68251-739-0 | \$160 | 2021 | Hardcover

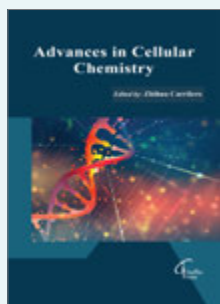


Contemporary Aspects and Applications of Supercritical Fluid Chromatography

Editor: Ximena Alzbutas

A supercritical fluid chromatograph is a hybrid instrument assembled from the gas chromatography (GC) and liquid chromatography (LC) components. This book presents the major developments and applications useful to those embarking on using SFC for high throughput applications in other fields. Supercritical fluid chromatography (SFC) becomes an appreciated separation technique in science due to its capacity to provide fast, robust, and efficient analysis. In addition, this technique is considered as green due to its low consumption of organic solvents that are toxic, expensive, and harmful to environment. Therefore, this book presents the wide-ranging coverage and development of this technique in the separation and detection of PAHs and petroleum related compounds, oligomers and polymers, food residues, unpermitted addition and misuse of dyes in different foodstuffs, cosmetics and body care products, pharmaceutical separation, drug development and discovery, impurity profiling, and drug testing.

Print ISBN: 978-1-68251-740-6 | \$160 | 2021 | Hardcover



Advances in Cellular Chemistry

Editor: Zhihua Carrilero

By understanding how cells work in healthy and diseased states, cell biologists working in animal, plant and medical science will be able to develop new vaccines, more effective medicines, plants with improved qualities and through increased knowledge a better understanding of how all living things live. The current book is focused on the types of molecules within cells, the central role of proteins as biological catalysts, the generation and utilization of metabolic energy, the biosynthesis of major cell constituents, and the structure of biological membranes. An appreciation of these chemical foundations forms the basis for understanding the diverse aspects of cell structure and function that will be discussed throughout the text.

Print ISBN: 978-1-68251-741-3 | \$160 | 2021 | Hardcover

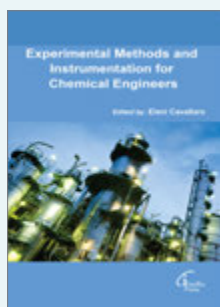


Distillation and Absorption: Special Topics

Editor: Fausto Apospori

Distillation is one of the oldest and most popular chemical separation methods. The aim of this book is to present state of the art research and developments on distillation and absorption in real life. Distillation is used to separate liquids from nonvolatile solids, as in the separation of alcoholic liquors from fermented materials, or in the separation of two or more liquids having different boiling points, as in the separation of gasoline, kerosene, and lubricating oil from crude oil. Other industrial applications include the processing of such chemical products as formaldehyde and phenol and the desalination of seawater. The book is a compilation of the research and reviews presented by world-wide authors and experts which aimed to address and record changes in distillation and absorption and to discuss new directions in the field.

Print ISBN: 978-1-68251-781-9 | \$160 | 2021 | Hardcover



Experimental Methods and Instrumentation for Chemical Engineers

Editor: Eleni Cavallaro

Chemical engineering has a number of applications in our day to day lives. Chemical engineering also has applications in production of electronics, clothing, paper and photographic equipment etc. This book covers a wide variety of topics related to the application of experimental methods, including with pedagogy of chemical engineering laboratory unit operations. The book will also explore the development of laboratory experiments and analysis for chemical engineering students and practitioners, and shows examples of how it is used in the development of experimental activities.

Print ISBN: 978-1-68251-782-6 | \$160 | 2021 | Hardcover

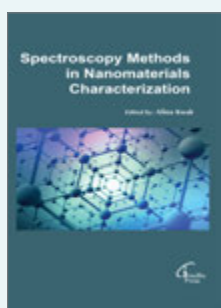


Applied High Pressure Technologies in Biomass Conversion

Editor: Gihyun Badulescu

Biomass is created by green plants that convert sunlight into plant material over photosynthesis and contains all soil and water-based vegetation, as well as all organic waste. Biomass resource can be considered as organic matter in which sunlight energy is contained in chemical bonds. The use of renewable energy sources is becoming increasingly important if we are to bring about the improvements needed to address the impacts of global warming. The book presents a broad overview of the key processes and conversion pathways being considered in biorefineries, and how high-pressure CO₂ and CO₂/H₂O mixtures may help address some of the challenges associated with the conversion of biomass.

Print ISBN: 978-1-68251-783-3 | \$160 | 2021 | Hardcover

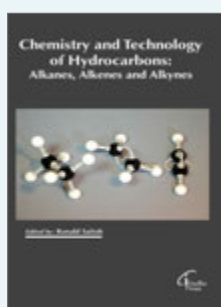


Spectroscopy Methods in Nanomaterials Characterization

Editor: Alina Kwak

The book is intended to cover all the major spectroscopic techniques for nano-characterization, making it an important resource for both the academic community at the research level and the industrial community involved in nano-manufacturing. This book gives a comprehensive overview about UV-visible and photoluminescence spectroscopy for the characterization of nanomaterials. This book will present literature studies that applied spectroscopic techniques to nanomaterial characterization. It covers spectroscopic techniques that are commonly used to study the size, shape, surface properties, composition, purity and stability of nanomaterials, along with their advantages and disadvantages. The book provides some new research and developments on nanoparticle synthesis, types, characterization and most advanced application related to nanotechnology.

Print ISBN: 978-1-68251-784-0 | \$160 | 2021 | Hardcover



Chemistry and Technology of Hydrocarbons: Alkanes, Alkenes and Alkynes

Editor: Ronald Saitoh

A hydrocarbon is an organic chemical compound composed exclusively of hydrogen and carbon atoms. Hydrocarbons are naturally-occurring compounds and form the basis of crude oil, natural gas, coal, and other important energy sources. Hydrocarbons are highly combustible and produce carbon dioxide, water, and heat when they are burned. This book compiles state of the art research and developments on organic chemistry of Alkanes, Alkenes, and Alkynes. The book explores the origins and compositions of fossil hydrocarbons and shows how the "heavies" can be chemically transformed into environmentally clean gas, liquid transportation fuels, and an almost unlimited range of petrochemicals. It also presents an analysis of the process steps used to produce industrial hydrocarbons from various raw materials. This book will serve as valuable guide to petroleum chemists, engineers, and researchers.

Print ISBN: 978-1-68251-786-4 | \$160 | 2021 | Hardcover

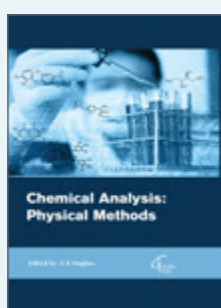


Techniques of Solid-State Fermentation

Editor: A. Krygsman

History of Solid State Fermentation (SSF) is very well known to everyone in the field of pharmaceuticals and food processing. It is widely applied to producing several enzymes, organic acids, flavoring compounds etc., which must be extracted and purified and then used in different products. Solid-state fermentation is the most suitable fermentation technique to cultivate mushrooms, and many technological advances have taken place in the last few decades. The book systematically describes the production of solid-state fermented food and beverage in terms of the history and development of SSF technology and SSF foods intended for biochemists, biotechnologists and process engineers, as well as researchers interested in SSF.

Print ISBN: 978-1-68251-665-2 | \$160 | 2020 | Hardcover

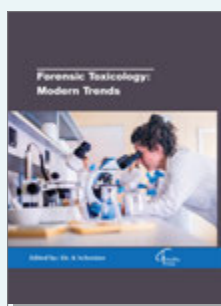


Chemical Analysis: Physical Methods

Editor: A K Hughes

The knowledge of chemical analysis today has become important not only for scientists in their research but in fact bears influence in our daily routine as well. It is rare that chemical analysis is performed only for the sake of knowing, it is ingrained into everybody's life. Chemical analysis is essential of ensuring the chemical's safety, quality, productivity, control, consistency, among other factors that affect everyday life. This book presents cutting-edge research in the rapidly changing and evolving field of chemical materials characterization and modification.

Print ISBN: 978-1-68251-684-3 | \$160 | 2020 | Hardcover

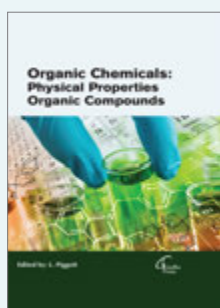


Forensic Toxicology: Modern Trends

Editor: Dr. K Schreiner

Toxicology does embrace the study of deleterious effects of substance exposure not only to the human body but also to the environment and all other organisms existing in the environment. Information in forensic toxicology plays a very important role. The forensic pathologist usually seeks toxicological analyses on basis of the information available at the time of the medicolegal autopsy. The book presents the review of the most up-to-date analytical methods in forensic analysis, along with state-of-the-art developments in the field.

Print ISBN: 978-1-68251-660-7 | \$160 | 2020 | Hardcover

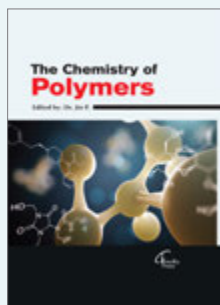


Organic Chemicals: Physical Properties Organic Compounds

Editor: L. Piggott

Organic compounds are important because all living organisms contain carbon. They are the basic components of many of the cycles that drive the earth. Organic compounds typically consist of groups of carbon atoms covalently bonded to hydrogen, usually oxygen, and often other elements as well. Created by living things, they are found throughout the world, in soils and seas, commercial products, and every cell of the human body. This book provides readers comprehensive information on the structure and physical and chemical properties of important chemicals.

Print ISBN: 978-1-68251-598-3 | \$160 | 2020 | Hardcover

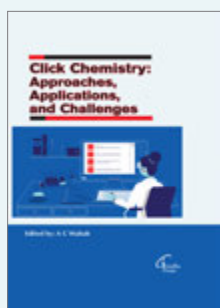


The Chemistry of Polymers

Editor: Dr. Jin P.

The polymers, a word that we hear about it a lot, is very vital and one cannot imagine the life without it. Polymers represent the second largest class of ingredients in cosmetics and personal care products. The rapid increase in demand for the manufactured products introduces the new materials. These new materials are polymers, and their impact on the present way of life is almost incalculable. This book presents an overview of current trends to generate further interest in present and future developments in the field.

Print ISBN: 978-1-68251-599-0 | \$160 | 2020 | Hardcover



Click Chemistry: Approaches, Applications, and Challenges

Editor: A C Wahab

Click Chemistry has rapidly established a prominent role in materials science, medicinal, and bio conjugation chemistry. It is important to recognize that click reactions achieve their required characteristics by having a high thermodynamic driving force, usually greater than 20 kcal/mol. This book discusses click chemistry reactions that proceed rapidly with high selectivity, specificity, and yield. In this book, important aspects of click chemistry will be discussed, along with its emerging applications in drug delivery and nanomedicine.

Print ISBN: 978-1-68251-600-3 | \$160 | 2020 | Hardcover

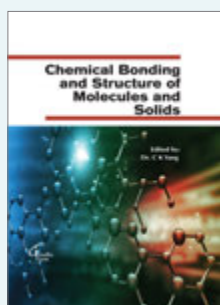


Advanced Free Radical Reactions for Organic Synthesis

Editor: R.K. Chu

Radical reduction of alkyl and aryl halides is a fundamental and important reaction in organic synthesis, and has been extensively used. Although inorganic chemists have been aware of free radicals for many years it is only recently that their importance in biochemistry and medicine has become more widely appreciated. The toxic nature of free radicals was firmly brought to the attention of the public by the recent. The book covers a wide range of free radicals and it is certain that, with the continuing research in this field, the crucial role of these chemical species in normal and pathological biochemical processes will become increasingly apparent. Consequently, the book provides essential guidance to the practical aspects of free radical chain reactions for students, chemists, and practitioners.

Print ISBN: 978-1-68251-601-0 | \$160 | 2020 | Hardcover



Chemical Bonding and Structure of Molecules and Solids

Editor: Dr. C K Yang

The concept of chemical bonding lies at the very core of Chemistry; it is what enables about one hundred elements to form the more than fifty million known chemical substances that make up our physical world. Chemical bonds hold molecules together and create temporary connections that are essential to life. This book covers state of the art research and reviews to the theory of bonding and structure of molecules and solids. It also sheds light on the observed tendencies in the bonding and structure of molecules and solids within the models of the electronic structure.

Print ISBN: 978-1-68251-602-7 | \$160 | 2020 | Hardcover

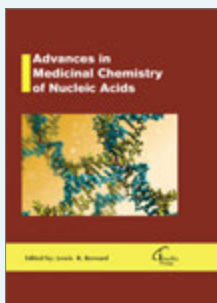


Solid State Chemistry: Current Research & Trends

Editor: K.D. Palmiter

This book discusses the role of solid-state chemistry in the discovery of new thermoelectric materials. In the spirit of continuing to expand the scope of the solid state chemistry community into new areas of scientific inquiry, some important aspects of solid state chemistry and introduction to solid state reactions including classification are presented. Comprehensive descriptions of different thermal methods of analysis are given. The book presents an understanding of basic physics, chemistry and crystallography, and contains the most recent examples, case studies and research.

Print ISBN: 978-1-68251-603-4 | \$160 | 2020 | Hardcover



Advances in Medicinal Chemistry of Nucleic Acids

Editor: Lewis R. Bernard

Chemistry has played a vital role in making routine, affordable sequencing of human genomes a reality. Nucleic acid therapeutics is a field that has been continually innovating to meet. With extensive coverage of synthesis techniques and applications, this book describes chemical biology techniques which have extended significant stimulus during the last five years. Nucleic acid base sequence of proteins plays a crucial role in the expression of gene. The gene is responsible for the synthesis of proteins and these proteins, which are synthesized, are responsible for the biological process and also for dreadful diseases as well.

Print ISBN: 978-1-68251-649-2 | \$160 | 2020 | Hardcover

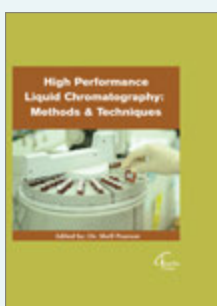


Toxicology: Current and Future Trends

Editor: M. C. Linde

The goal of toxicology is to contribute to the general knowledge of the harmful actions of chemical substances, to study their mechanisms of action, and to estimate their possible risks to humans on the basis of experimental work on biological test systems. Toxicology provides important information for both medicine and epidemiology in understanding aetiology and in providing information as to the plausibility of observed associations between exposures, including occupations, and disease. This is an essential reference for students in toxicology and across the biomedical sciences, life sciences, and environmental sciences who want to learn the concepts of toxicology.

Print ISBN: 978-1-68251-658-4 | \$160 | 2020 | Hardcover

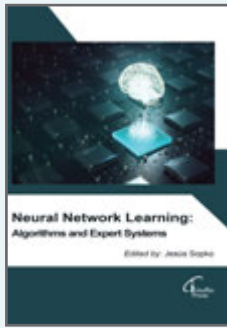


High Performance Liquid Chromatography: Methods & Techniques

Editor: Dr. Shell Pearson

High-performance liquid chromatography (HPLC) is a chromatographic technique used to split a mixture of compounds in the fields of analytical chemistry, biochemistry and industrial. The HPLC (high-performance liquid chromatography) is applicable for all biochemical analyses, because of the wide variety of separation principles (adsorption-, partition-, ion-exchange- and steric exclusion-chromatography). An important field of application of HPLC is the use in sample clean-up for other analytical methods. The book will serve as reference guide for readers interested in High Performance Liquid Chromatography.

Print ISBN: 978-1-68251-659-1 | \$160 | 2020 | Hardcover

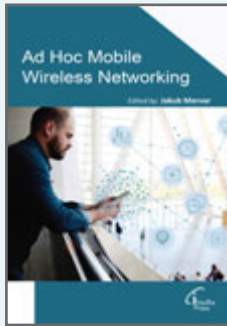


Neural Network Learning: Algorithms and Expert Systems

Editor: Jesús Sopko

Expert systems have recently become popular and are attracting more and more attention. The development of Artificial Intelligent (AI) technology system can be a wide scope; for an instant, there are rule-based expert system, frame-based expert system, fuzzy logic, neural network, genetic algorithm, etc. The current book presents an integrated and comprehensive approach of neural network learning algorithms and neural network expert systems. Expert system has been used widely in many areas and industries. This book describes the current research and development of expert system. The book discusses the expert system technology and its development methodologies and discuss how machine learning factors in each of the methodologies.

Print ISBN: 978-1-68251-699-7 | \$160 | 2021 | Hardcover



Ad Hoc Mobile Wireless Networking

Editor: Jakub Mervar

A wireless ad hoc network is a collection of wireless nodes that can dynamically self-organize into an arbitrary and temporary topology to form a network without necessarily using any pre-existing infrastructure. These characteristics make ad hoc networks well suited for military activities, emergency operations, and disaster recoveries. This book reveals the state-of-the-art of ad hoc wireless networking in addition to giving the fundamentals of routing protocols. The book captures the current state of the field as well as upcoming challenges awaiting researchers. The design of an ad hoc network has to take into account several interesting and difficult problems due to noisy, limited-range, and insecure wireless transmissions added to mobility and energy constraints. This book presents an overview of issues related to medium access control (MAC), routing, and transport in wireless ad hoc networks and techniques proposed to improve the performance of protocols.

Print ISBN: 978-1-68251-700-0 | \$160 | 2021 | Hardcover

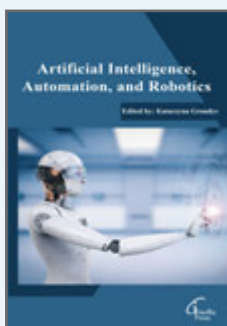


Key Technologies for 5G Wireless Systems

Editor: Manuel Thurasamy

In the past few decades, mobile wireless technologies have experience 4 or 5 generations of technology revolution and evolution, namely from 1G to 4G. Current research in mobile wireless technology concentrates on advance implementation of 4G technology and 5G technology. This book provides an inclusive and comprehensive analysis of recent developmental endeavors toward 5G. It highlights salient features, i.e., flexibility, accessibility, and cloud-based service offerings, those are going to ensure the futuristic mobile communication technology as the dominant protocol for global communication. Mobile and wireless networks have made remarkable development in the last few years. At the present time many mobile phones have also a WLAN adapter. This book throws light on the evolution and development of various generations of mobile wireless technology along with their significance and advantages of one over the other.

Print ISBN: 978-1-68251-701-7 | \$160 | 2021 | Hardcover

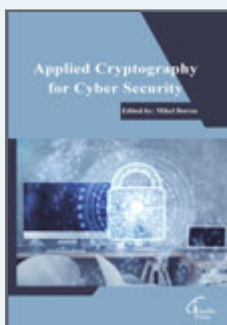


Artificial Intelligence, Automation, and Robotics

Editor: Katarzyna Grondys

Artificial Intelligence (AI) technology has long history which is actively and constantly changing and growing. It focuses on intelligent agents, which contains devices that perceives environment and based on which takes actions in order to maximize goal success chances. The concept and introduction of Artificial Intelligence in our daily lives has completely enhanced the world to a new scale. The role of this book is to explore where we are today and what will be the ultimate future of AI technology, if we continuously applied in every field. It will also analyses the potential AI techniques and their potential benefits for improving the system.

Print ISBN: 978-1-68251-743-7 | \$160 | 2021 | Hardcover

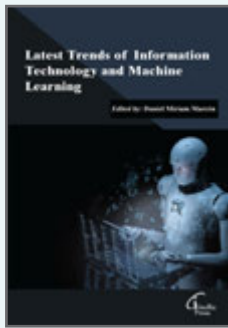


Applied Cryptography for Cyber Security

Editor: Mikel Borrás

Cyber security is a global phenomenon representing a complex socio-technical challenge for governments, but requiring the involvement of individuals. Although cybersecurity is one of the most important challenges faced by governments today, the visibility and public awareness remains limited. This book deals with the importance of focusing attention on cybercrime and cybersecurity. Technological development has brought new forms of crime in this area. This number is increasing and organizations are incurring higher costs in dealing with these cybersecurity incidents. Although most cyber-attacks are harmless, the impact of some is severe. The inability to frame cybersecurity has resulted in a failure to develop suitable policies. This book also discuss the challenges in framing policy on cybersecurity and offer strategies for better communicating cybersecurity. Communicating cybersecurity is confronted with paradoxes, which has resulted in society not taking appropriate measures to deal with the threats.

Print ISBN: 978-1-68251-744-4 | \$160 | 2021 | Hardcover

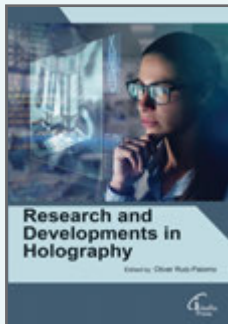


Latest Trends of Information Technology and Machine Learning

Editor: Daniel Miriam Marcén

In the past few decades there has been a revolution in computing and communications, and all indications are that technological progress and use of information technology will continue. The revolution in information and communication technology has changed not only our lives but also the way how people do business. Among these emerging technologies are the ubiquitous networks, which enable monitoring of people and objects as well as tracing, storing and processing of information in real time. Transformation from industrial society to information society and industrial economy to knowledge economy is a result of the impact of ICT and Internet use. This book examines trends and challenges in research on IT governance in organizations, surveying innovative research and new comprehensions in the theories, models and practices within the area.

Print ISBN: 978-1-68251-745-1 | \$160 | 2021 | Hardcover

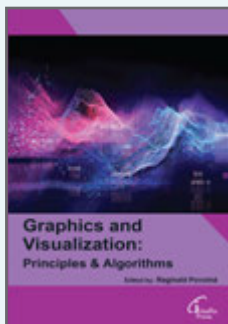


Research and Developments in Holography

Editor: Oliver Ruiz-Palomo

As holography became more ubiquitous, however, it lost some of its luster for public audiences as well as for professional scientists and engineers. But the technology still makes an impact today, although not with the same punch it had a quarter-century ago. Now, holography is a modern world technology created for the complete distribution of wave information. This technology will bring fundamental changes in the field of science and technology. The aim of this book is to study the recent improvements in creating three-dimensional images and videos by means of holographic techniques. It also discusses the potentials of holography to be applied in future. Taking into account the main goal of the book – to understand the new and attention catching problem of holographic recording, readers will become more familiar with the wave model of light. The current book guides students from simple optics to advanced topics in holography, following a practical approach using real-world materials.

Print ISBN: 978-1-68251-746-8 | \$160 | 2021 | Hardcover



Graphics and Visualization: Principles & Algorithms

Editor: Reginald Povolná

The construction and analysis of algorithms and data structures is a basic and very important part of modern computer science. Its importance increases also by the rapid development of more powerful and faster computers. The book contains state of the art information on studying visual analytics, developing languages and models of interaction with visualizations, designing novel information visualizations for smarter visual analytics, developing new representations of 3D geometry, strategies for collaborative and social visualization, and designing software systems that support a full range of display formats ranging from smartphones to immersive multi-display visualization environments. This book discusses how to use graphics and visualization technologies to do just that and represents some key challenges in interacting with structured and unstructured information distributed over the global information infrastructure. Presenting the integrated coverage of computer graphics and visualization topics, the book includes important data visualization techniques.

Print ISBN: 978-1-68251-747-5 | \$160 | 2021 | Hardcover

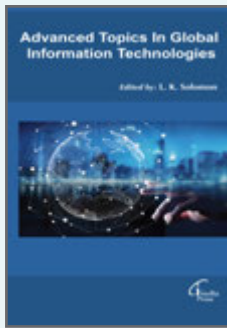


Cognitive Computing and Big Data Analytics

Editor: Lucie Masocha

Cognitive Computing is the use of computational learning systems to augment cognitive capabilities in solving real world problems. Cognitive computing can be utilized to reduce the shortcomings of the concerns faced during big data analytics. New technologies such as cognitive computing offer promise for addressing this challenge because cognitive solutions are specifically designed to integrate and analyze big datasets. The aim of this book is to provide readers a complete understanding of past, present and future directions in the domain big data and cognitive computing. The current book, among the wide variety of recent innovations, pays attention on cognitive computing systems and on the exploitation of big data, which we expect to further accelerate the refurbishment process of the key components of the knowledge society. This book will also present emphasis on the concepts and challenges to design Cognitive Systems.

Print ISBN: 978-1-68251-748-2 | \$160 | 2021 | Hardcover

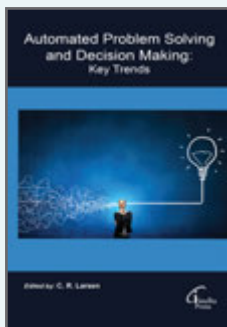


Advanced Topics in Global Information Technologies

Editor: L. K. Solomon

Today, almost all organizations use Information and Communication Technologies to efficiently manage their operations, to help managers make better decisions and achieve competitive advantage, and to facilitate seamless internal and external communications with their employees, customers, partners, and other stakeholders. This book presents the current status and perspectives of an interdisciplinary knowledge domain including informatics, computer science, control theory, and IT applications were analyzed. Scientific-and-methodological and applied problems of IT integration with existing and future industrial and socio-economic structures were stated. It will introduce the elements of Global IS, which will address and link the key issues identified by researchers to the global business strategies of practitioners. The book discusses some of the critical challenges facing management in a global IT context.

Print ISBN: 978-1-68251-787-1 | \$160 | 2021 | Hardcover

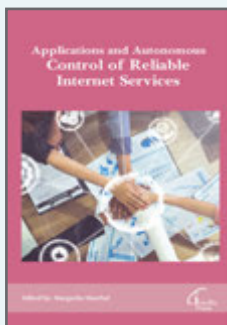


Automated Problem Solving and Decision Making: Key Trends

Editor: C. R. Larsen

The decision making process of many operations are dependent on analyzing very large data sets, previous decisions and their results. In order to reduce the time, cost and to increase the efficiency and accuracy, which are the most important things for customer satisfaction, many organisations are adopting the automated decision making systems. This book compiles comprehensive information about the technologies used for automated decision making systems and the areas in which automated decisions systems works more efficiently and accurately. This book provides the wide—ranging coverage to the challenges and perspectives of decision making from a computational perspective.

Print ISBN: 978-1-68251-788-8 | \$160 | 2021 | Hardcover



Applications and Autonomous Control of Reliable Internet Services

Editor: Margarita Marchal

The Internet is a vital infrastructure that supports our information society. The growth of the internet has ushered about myriad connectivity to information in many ways that one can imagine. To maintain the exchange of information, middleware, converters and likes must be inserted into the connectivity. These phenomena trigger an unprecedented explosion of information that creates the infamous face-down society and social network. The book compiles state-of-the-art coverage on all aspects of network reliability and fault tolerance. This book discusses service provider's challenges and approaches to delivering reliable networks and networked application services. The book offers a systematic, interdisciplinary approach and coverage of practical problems arising from real deployments in operation. The chapters are written by renowned academic and industry experts.

Print ISBN: 978-1-68251-789-5 | \$160 | 2021 | Hardcover

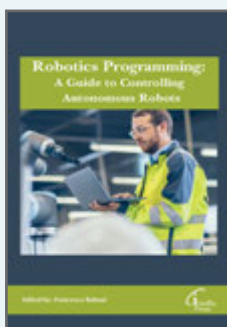


Secure and Smart Internet of Things (IoT): Systems and Applications

Editor: Frédéric Peltek

The concept of IoT is particularly useful or to people with disabilities, as IoT technology can help human activities on a broader scale, such as building or community, as devices can collaborate to act as an overall network. Now a days everywhere like at railway station, shopping malls, in colleges an information desk is mandatory that provides information about the train schedule, promotional offers and important notice immediately. This book covers essential topics in the architecture and design of Internet of Things (IoT) systems. In addition, the book covers examples of innovative applications and real-world case studies. This book presents of the state-of-the-art research work in the field of the IoT, especially on the issues of communication protocols, interoperability of protocols and semantics, trust security and privacy issues.

Print ISBN: 978-1-68251-790-1 | \$160 | 2021 | Hardcover

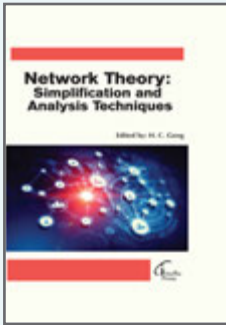


Robotics Programming: A Guide to Controlling Autonomous Robots

Editor: Francesco Rahoui

Robots are emerging in many areas. Robotics has always been a fertile inspiration paradigm for AI research, frequently referred to in its literature, in particular in the above topics. Nowadays, robots are getting closer to humans and as such are becoming critical systems that must meet safety properties including logical, temporal, and real-time constraints. This compilation describes the analysis, design and implementation of a mobile robotic system with increasing degrees of autonomy to operate in semi-structured industrial environments. Modern robot control systems used in industry at present provide highly optimized motion control that works well in a variety of standard applications. To this end, computationally intensive model-based robot motion control techniques have become standard during the last decade. This book brings together some recent advances and development in robotics.

Print ISBN: 978-1-68251-791-8 | \$160 | 2021 | Hardcover

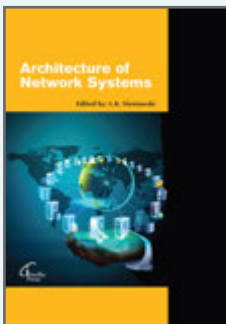


Network Theory: Simplification and Analysis Techniques

Editor: H. C. Gong

Network theory is one of the central theories of organizational communication. Discover what's behind network theory and why this area of study is so important in the field of communication. This book proposes a generic framework and methods for simplification of large networks. The methods can be used to improve the understandability of a given network, to complement user-centric analysis methods, or as a pre-processing step for computationally more complex methods.

Print ISBN: 978-1-68251-605-8 | \$160 | 2020 | Hardcover

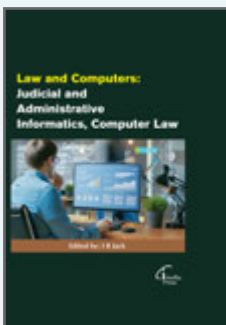


Architecture of Network Systems

Editor: L.K. Sieniawski

Networks or graphs are a simple yet powerful formalism, but for finding or extracting the most relevant parts of large networks, intelligent data analysis can be useful. The reason why an analysis of the past system as well as the proposed incoming one is required is because of its importance to the development of the architecture and design of the new system. Network architecture, after all, utilizes the information that is garnered from network analysis. This book provides comprehensive coverage of the technical aspects of network systems, network processing, and network processors.

Print ISBN: 978-1-68251-606-5 | \$160 | 2020 | Hardcover

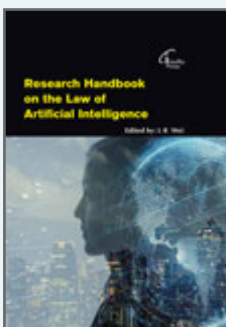


Law and Computers: Judicial and Administrative Informatics, Computer Law

Editor: I R Jack

They make it easier to do lawful things, and they make it easier to break the law. Attorneys who practice computer law have the important task of deciding how to regulate the internet and why. They create, enforce, implement and challenge the laws that regulate computers and electronic communication. Computers have changed the handling of legal discovery projects. A reference on computer law for students and practitioners to legal matters of computers and the computer industry.

Print ISBN: 978-1-68251-611-9 | \$160 | 2020 | Hardcover



Research Handbook on the Law of Artificial Intelligence

Editor: L R Wei

Information Technology Law is important because computers are now part of our life and we need a legal framework to safeguard human rights. Artificial intelligence enables the human lawyer to work speed and more data. These AI systems show us cooperation of human and AI is important. Artificial intelligence (AI) increasingly permeates every aspect of our society, from the critical, like urban infrastructure, law enforcement, banking, healthcare and humanitarian aid, to the mundane like dating. This book is the introduction to the governing of artificial intelligence: ethical, legal and technical opportunities and challenges'.

Print ISBN: 978-1-68251-612-6 | \$160 | 2020 | Hardcover

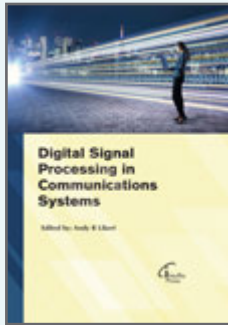


Broadband and Mobile Communications Networks: Recent Advances

Editor: K D Putnam

With the rapid increase in users' demand for flexibility and scalability of communication services, broadband communication networks are facing an ongoing challenge of providing various broadband services using a single communication architecture. This book discusses the wide-ranging concepts associated with broadband communication network architectures with emphasis on provision of multiservice, and it also focuses on the evolution of broadband communication networks from the traditional architecture to the incorporation of virtualization services.

Print ISBN: 978-1-68251-662-1 | \$160 | 2020 | Hardcover



Digital Signal Processing in Communications Systems

Editor: Andy R Likert

A great deal of modern communications equipment is being converted from analog to digital technology. Digital Signal Processing is important because it significantly increases the overall value of hearing protection. Unlike passive protection, DSP suppresses noise without blocking the speech signal.

A great deal of modern communications equipment is being converted from analog to digital technology. This timely book explains many of the important concepts related to digital signal processing in easy-to-understand discussions of communications techniques, data transmission, filters, and hardware. Readers are given practical information on how to apply theory and algorithms to the design of radio receivers and transmitters.

Print ISBN: 978-1-68251-664-5 | \$160 | 2020 | Hardcover

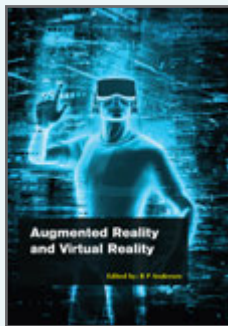


Mobile Cloud Computing: Models, Implementation, and Security

Editor: K R Hansen

Amid the last few years, there is a progressive improvement in the field of Mobile Computing and Mobile Cloud Computing has been acquainted with be a potential innovation for Mobile Services. Also, the cell phones and their applications have high system in the service ever had, and created quickly. Cloud Networking is one of the systems administration based innovation or strategy that is in charge of encouraging the machine systems with the obliged systems, Cloud Networking gives the asset when machine system ask the asset. The book provides the latest research and development insights on mobile cloud computing architecture, design, key techniques, and challenges.

Print ISBN: 978-1-68251-691-1 | \$160 | 2020 | Hardcover



Augmented Reality and Virtual Reality

Editor: R P Andersen

In the arc of every modern technology's development, a great deal of attention is generally initially focused on the technology itself. When, artificial intelligence (AI) was emerging as a computational and cognitive force, researchers and university professors were constantly in the media explaining how neural networks and machine learning worked, and how this technology (and many other forms of AI) differed from traditional computer programs. This book provides the latest outcomes of augmented reality (AR) and virtual reality (VR) research contributed by eminent specialist and researchers.

Print ISBN: 978-1-68251-692-8 | \$160 | 2020 | Hardcover

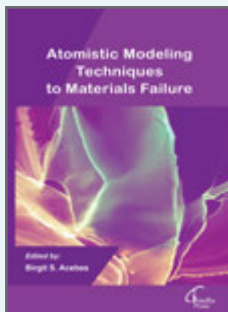


Research and Development on Sensors and Actuators in Mechatronics

Editor: Ramayah Woschank

Microelectromechanical systems (MEMS) is a miniaturization technology primarily embraced by the Integrated Circuit (IC) industry and adhered to the miniaturization of all devices not only electrical, but also mechanical, optical, hydraulic, magnetic, etc. This book sheds light on a highly promising & demanding technology, which is set to revolutionize nearly every product category in present era, while discussing the Concept, Design & Development, Fabrication techniques and applications of micro electro-mechanical systems (MEMS) based Devices or systems. This book deals with research and the development of micro-electromechanical system (MEMS) sensor and actuators technology, to consider its current use in sensing technology and to identify and discuss future technological trends and directions in today's life of technology. This book also highlights commercial and real life applications of MEMS and discusses various recent technological innovations carried out with their advantages & disadvantages.

Print ISBN: 978-1-68251-702-4 | \$160 | 2021 | Hardcover

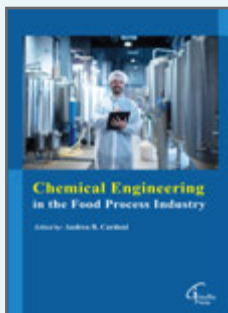


Atomistic Modeling Techniques to Materials Failure

Editor: Birgit S. Acebes

Atomistic modeling has been at the cutting edge of the computational investigation of nanomaterials, where interfacial regions often play a critical role. Atomistic modeling techniques use modern computing power to explicitly include every atom in modeling of a material. As interacting atoms are the foundation of all materials science, atomistic modeling has helped enable a new field of computational materials studies. This book presents the complete fundamentals of materials modeling for graduate students and researchers in physics, materials. This book will provide readers with a basic understanding about the fundamentals, application areas, and potential of classical molecular dynamics for problems in mechanics of materials.

Print ISBN: 978-1-68251-704-8 | \$160 | 2021 | Hardcover

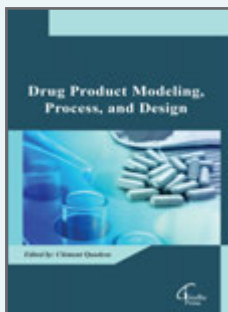


Chemical Engineering in the Food Process Industry

Editor: Andrea B. Cardoni

The food industry is a complex, global collective of diverse businesses that supply much of the food energy consumed by the world population. Chemical engineering principles are being increasingly applied to the design and control of food processing plants. Modern techniques are used to improve the flavor, texture, nutritional value, safety, appearance and overall aesthetic appeal of various foods. Chemical engineers have invented a variety of engineered processes that allow food processors to remove impure substances to improve food quality, safety, and aesthetics. This in turn requires in-depth knowledge of the principles of microstructure formation and its role on functionality. In this book, the role of chemical engineering in food processing industries have been presented where different types of filtration are the key factor.

Print ISBN: 978-1-68251-705-5 | \$160 | 2021 | Hardcover



Drug Product Modeling, Process, and Design

Editor: Clément Quadros

The pharmaceutical industry has traditionally focused heavily on research and development, but with fewer marketable drugs being discovered, there has been a shift to the optimization of existing production processes. Chemical engineers are uniquely positioned to help address these needs in part derived from their ability to predict using mathematical models and their understanding of equipment and manufacturability. This book deals with various unique elements in the drug development process within chemical engineering science and pharmaceutical R&D. It provides a high-level overview of bringing a drug to market and highlight industry trends, current challenges, and how chemical engineering skills are an exquisite match to address those challenges. This book is therefore intended to cover many important concepts and applications of chemical engineering science that are particularly important to the Pharmaceutical Industry.

Print ISBN: 978-1-68251-706-2 | \$160 | 2021 | Hardcover

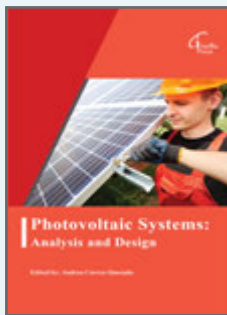


Sustainable and Resilient Infrastructure Systems

Editor: José P. Succi

Sustainability in civil engineering is often equated to resource efficiency as civil engineering processes are both resource and fuel intensive. The civil engineering industry has always remained a means to the goal of anthropocentric development. This book proposes taxonomy of themes and a research agenda on sustainable infrastructure, with a focus on sustainable buildings (SB) and green infrastructure (GI); including methodological issues of cost-effectiveness, project management and assessment tools. The book is intended to focus a platform for upcoming sustainable engineering of civil infrastructure design.

Print ISBN: 978-1-68251-708-6 | \$160 | 2021 | Hardcover

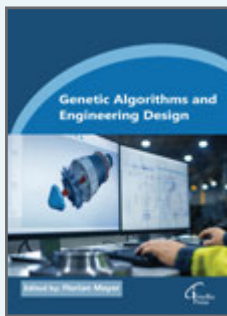


Photovoltaic Systems: Analysis and Design

Editor: Andrea Correa-Quezada

The use of solar energy is expected to increase around the world in the coming years. Particularly at middle and at low latitudes, it will be the main source of energy supporting the economy after global and local crises. The book reports on the latest advances in the broad field of solar and photovoltaic systems, including power generation and storage. It will focus on both established technologies applied in the real-world and prototype systems demonstrated on a laboratory scale. The demonstration of new material concepts and their application in devices will be of particular relevance as a way to provide the community with new potential solutions for future applications. This book serves as an essential reference for installers, engineers and architects; it details every subject necessary for successful project implementation, from the technical design to the legal and marketing issues of PV installation.

Print ISBN: 978-1-68251-709-3 | \$160 | 2021 | Hardcover

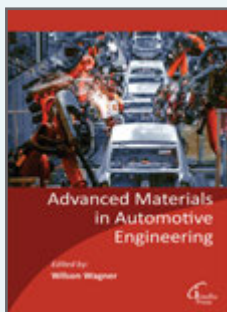


Genetic Algorithms and Engineering Design

Editor: Florian Mayer

A genetic algorithm (GA) is a search and optimization method which works by mimicking the evolutionary principles and chromosomal processing in natural genetics. Genetic algorithm is a multi-path algorithm that searches many peaks in parallel, hence reducing the possibility of local minimum trapping and solve the multi-objective optimization problems. The last few years have seen important advances in the use of genetic algorithms applied to a wide variety of engineering problems, because of their simplicity, global perspective, and inherent parallel processing. This book explains the basic technique of the genetic algorithm and shows how design engineers can use a genetic algorithm to solve real design engineering problems. The book focuses on explaining how genetic algorithms work. This book is intended to demonstrate Genetic Algorithms to locate robust design areas and provided a thorough discussion on robustness and diversity in depth.

Print ISBN: 978-1-68251-714-7 | \$160 | 2021 | Hardcover

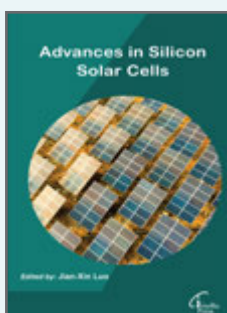


Advanced Materials in Automotive Engineering

Editor: Wilson Wagner

All material industries plastics and polymer composites, as well as steel, aluminum, and magnesium, are operating to respond to the automotive industry changing needs. This book is intended to present information on the introduction and application of modern materials in the automotive industry. The automotive composite materials are used in various automotive components such as bumpers, seating, dashboards, internal and external trims. Therefore, research and development into lightweight materials is essential for lowering their cost, increasing their ability to be recycled, enabling their integration into vehicles, and maximizing their fuel economy benefits. It brings innovative materials to the frontline of design. The book also explores the relationship between product and production system when introducing new materials.

Print ISBN: 978-1-68251-715-4 | \$160 | 2021 | Hardcover

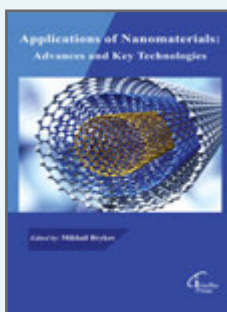


Advances in Silicon Solar Cells

Editor: Jian-Xin Luo

Silicon is the dominating photovoltaic technology today. Significant research has been conducted on silicon solar cells over the last decades. This has led to steady improvement in the power conversion efficiency of solar cells and a considerable reduction in the manufacturing cost. This book is aimed to cover past and current developments in the field, with a particular focus on the most recent theoretical and experimental discoveries concerning topics such as novel materials, device structures, and fabrication techniques for silicon solar cells. The book also has some recent developments in solar cell technologies.

Print ISBN: 978-1-68251-716-1 | \$160 | 2021 | Hardcover

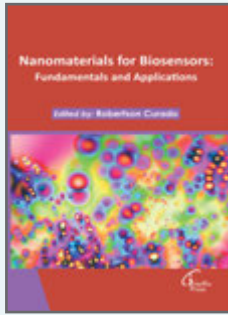


Applications of Nanomaterials: Advances and Key Technologies

Editor: Mikhail Brykov

Nanomaterials are of interest because at this scale unique optical, magnetic, electrical, and other properties emerge. These emergent properties have great potential applications in electronics, medicine, and other fields. The book contains state of the art developments on nanoparticles, nanocatalysts, nanoporous materials, nanocomposites, and nanofilm and nanoscale technologies. Both experimental and theoretical studies will be covered. The present book aims to reviews the previous work done and recent advancements in the field of nanotechnology. The book aims to help many budding research scientists all around the world by disseminating latest breakthrough and technological advancements in the fields.

Print ISBN: 978-1-68251-718-5 | \$160 | 2021 | Hardcover

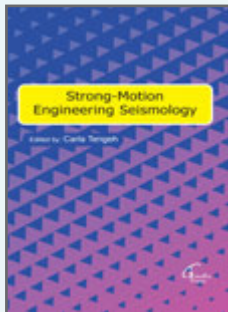


Nanomaterials for Biosensors: Fundamentals and Applications

Editor: Robertson Curado

As in many different technological sections, nanomaterials have demonstrated their appropriateness for biosensing applications. The biosensors using smart nanomaterials have applications for rapid, specific, sensitive, inexpensive, in-field, on-line and/ or real-time detection of pesticides, antibiotics, pathogens, toxins, proteins, microbes, plants, animals, foods, soil, air, and water. Thus, biosensors are excellent analytical tools for pollution monitoring, by which implementation of legislative provisions to safeguard our biosphere could be made effectively plausible. This book covers comprehensive coverage on recent progress in the development of biosensors by integrating functional biomolecules with different types of nanomaterials, including metallic nanoparticles, semiconductor nanoparticles, magnetic nanoparticles, inorganic/organic hybrid, dendrimers, and carbon nanotubes/graphene.

Print ISBN: 978-1-68251-719-2 | \$160 | 2021 | Hardcover



Strong-motion Engineering Seismology

Editor: Carla Tenghe

The analysis of structures is a fundamental part of seismic design and assessment. Engineering seismology is the link between earth sciences and engineering. The main input of engineering seismology in engineering design are loading conditions which must satisfy certain conditions regarding their level and frequency of occurrence during the lifetime of a structure. Knowledge of the mechanism of long-period ground motions is essential in order to permit the differentiation of their characteristics from non-long-period ground motions. This multi-contributor book provides comprehensive coverage of earthquake engineering problems, traditional techniques, and the scientific background on recent developments.

Print ISBN: 978-1-68251-720-8 | \$160 | 2021 | Hardcover



Rock Engineering in Difficult Ground Conditions - Soft Rocks and Kars

Editor: Erlantz Andresson

The present scenario of rapidly expanding mining and civil engineering sectors calls for scientific approach in formulating designs of opencast, underground and civil excavations. Recent years have seen numerical modelling techniques and software's replacing the traditional methods of rock excavation design. This book presents state of the art information in the fields of rock mechanics and mining engineering on systems theory, experimental and technological innovations, soft rocks landslide, tunnel excavation, and other issues, with fruitful achievements observed. It addresses the issue of the failure of rock engineering structures. The book is designed to provide an insight into practical rock engineering to students, geotechnical engineers and engineering geologists.

Print ISBN: 978-1-68251-721-5 | \$160 | 2021 | Hardcover

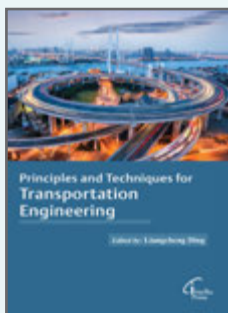


City Planning for Civil Engineers and Environmental Engineers

Editor: Yuye Wang

Urban design is fundamentally interdisciplinary. Architectural design and urban development have a huge impact on the current living environment. Over the last few years, actions aimed at the sustainability of architecture have mainly involved buildings. The purpose of this book is to explain the concepts of urban engineering and to highlight some of the challenges faced by this discipline. The overall idea is to describe how urban engineering relates to other areas of engineering expertise, particularly within the context of civil engineering. It is aimed to compile research that addresses comprehensive environmental problems and seeks to break the barriers between different design fields. Considering all the interesting information presented, the book can offer some aid in creating new research, as well as incite the interest of people for this area of study, since Urban Engineering is fundamental for city development.

Print ISBN: 978-1-68251-722-2 | \$160 | 2021 | Hardcover

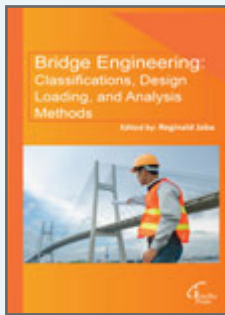


Principles and Techniques for Transportation Engineering

Editor: Liangcheng Ding

Transport plays a crucial role in economic and social development, and its contribution goes beyond what is normally captured in traditional cost-benefit analyses. The globalization of the economic system and growing specialization of individual regions increase this need. Therefore, transport is one of the fundamental pillars of current economics. The book incorporates both theory and practice to facilitate greener solutions for a wide variety of transportation engineering challenges. It includes topics on transport policy and planning, traffic surveys and accident investigation, road design for capacity and safety, and traffic management. Providing theory and research on topics such as public transport, accessibility, and spatial distribution, this book will appeal to policymakers, transportation engineers, road safety designers, transport planners and managers, and professionals.

Print ISBN: 978-1-68251-723-9 | \$160 | 2021 | Hardcover



Bridge Engineering: Classifications, Design Loading, and Analysis Methods

Editor: Reginald Jaba

Every nation needs the infrastructure to carry out all kinds of activities related to the improvement and service of society. The planning, design and construction process for any bridge appears to be logical and necessary steps, looking for good behavior of the structure during any traffic load, or resisting floods or seismic events. This book presents an advance in the state-of-the-art and current knowledge on all subjects of bridge engineering, from conceptual design to service life. The topics focused are bridge design, bridge construction, bridge maintenance, management, repair and strengthening of existing bridges. Bridge aesthetics, social impact and life-cycle performance of bridges are also covered. Therefore, the objective of this book is to increase the body of knowledge on engineering, construction, and management in relation to bridges.

Print ISBN: 978-1-68251-724-6 | \$160 | 2021 | Hardcover



Highway Engineering: Planning, Design, and Operations

Editor: Elisabeta Masocha

Road transport is the only road that could give maximum service to all of them. This mode also has the maximum flexibility for travel with regard to the route, direction, time and speed of travel. There are many things that city planners and lawmakers can do to help innovate and improve driving experience while also increasing road safety. This book contains latest research and developments on highway engineering. It includes the main topics and the basic principles of highway engineering and provides the full scope of current information necessary for effective and cost-conscious contemporary highway. It will serve as a valuable reference for all professors, researchers, engineers, practicing professionals, trainee practitioners, students, and others interested in highway projects.

Print ISBN: 978-1-68251-725-3 | \$160 | 2021 | Hardcover

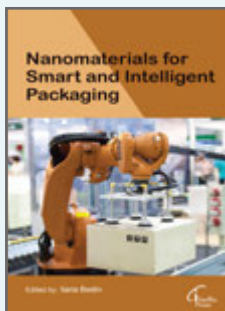


Novel Approaches of Nanotechnology in Food

Editor: Pedro Araujo-Pinzon

Nanotechnology has become one of the most promising technologies to revolutionize conventional food science and the food industry. Current applications of nanotechnology in food science including flavor control, enhancement of bioavailability of bioactive compounds, and detection of deleterious substances in foods are presented. Moreover, this book overviews classification, preparative methods, and safety issues of nanomaterials for food science. The book covers the potential of nanoparticles for their uses in the food industry in order to provide consumers a safe and contamination free food and to ensure the consumer acceptability of the food with enhanced functional properties. The contained information will be of help to provide comprehensive information for newcomers utilizing nanotechnology to the food sector.

Print ISBN: 978-1-68251-749-9 | \$160 | 2021 | Hardcover

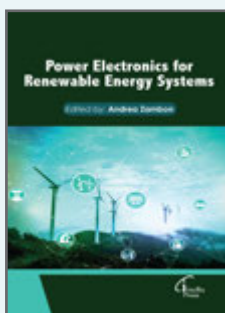


Nanomaterials for Smart and Intelligent Packaging

Editor: Ilaria Bedin

The use of nanotechnologies in the food packaging area opens up a number of possibilities derived from the inherent characteristics of nanoadditives, which can either improve relevant properties of neat polymers (such as barrier or mechanical properties) or introduce new functionalities (for active and bioactive packaging applications or even for sensing). This book is intended to compile a number of research and reviews focused on novel nanocomposites for improved packaging properties; use of nanoparticles for active/bioactive/sensing applications; migration/toxicological studies involving polymer/biopolymer nanocomposites. This book aims to review the availability of nano-food packaging in the current market, report case studies on nanomaterial migration, and present the current status of safety regulations and management of nano-food packaging in leading countries across regions.

Print ISBN: 978-1-68251-750-5 | \$160 | 2021 | Hardcover



Power Electronics for Renewable Energy Systems

Editor: Andrea Zambon

Technology to utilize the forces of nature for doing work to supply human needs is as old as the first sailing ship. But attention swung away from renewable sources as the industrial revolution progressed on the basis of the concentrated energy locked up in fossil fuels. The current book presents comprehensive theoretical and practical overview of designing, testing and troubleshooting power electronics in alternative energy systems, providing readers with the most important information on power electronic converters topologies. This book also addresses the problems associated with the use of power electronic converters in renewable energy source-based systems. In that regard the near certainty of costs being imposed on carbon dioxide emissions in developed countries at least has profoundly changed the economic outlook of clean energy sources. This book, therefore, provides the latest developments in the broad area of Power Electronics and Renewable Energy. The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques.

Print ISBN: 978-1-68251-751-2 | \$160 | 2021 | Hardcover



Electrical Drives: Principles, Planning, Applications

Editor: Junic Novotná

The growing use of electric machines and drives in more critical applications has pushed forward the research in the area of condition monitoring and fault tolerance, leading to the development of more reliable diagnostic techniques and more fault-tolerant machines. The current book aims to present and disseminate the most recent advances related to the theory, design, modelling, application, control, and condition monitoring of all types of rotating electric machines. The book also proposes self-tuning PI controller for the speed control of electrical motor drives. The subject of this book is an important and diverse field of electric machines and drives. This book provides a comprehensive introduction into the fundamental physics and basic technical principles of drive technology.

Print ISBN: 978-1-68251-752-9 | \$160 | 2021 | Hardcover

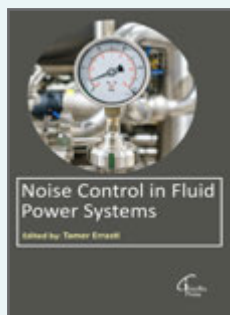


Smart Manufacturing and Operations Management: Key Trends

Editor: Andreja Sarno

Today, the manufacturing industry is aiming to improve competitiveness through the convergence with cutting-edge ICT technologies in order to secure a new growth engine. Smart Manufacturing is also considered as a new paradigm, is the collection of cutting-edge technologies that support effective and accurate engineering decision-making in real time through the introduction of various ICT technologies and the convergence with the existing manufacturing technologies. The book provides a comprehensive guide to practices, challenges, and opportunities related to the Industry 4.0. The book surveyed and analyzed various articles related to smart manufacturing, identified the past and present levels, and predicted the future. For these purposes, the major key technologies related to smart manufacturing were identified through the analysis of the policies and technology roadmaps.

Print ISBN: 978-1-68251-764-2 | \$160 | 2021 | Hardcover

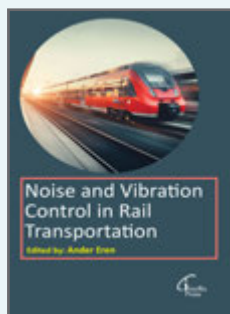


Noise Control in Fluid Power Systems

Editor: Tamer Errasti

Fluid power units determine often the noise development of many stationary industrial machines like hydraulic presses, machine tools, plastics molding machines, etc. Similar situation is also in the field of mobile hydraulics. Noise reduction in fluid power drives is increasingly important in view of their increasing power and stricter requirements concerning noise control of machines. This book describes the noise generation mechanisms and methods for noise reduction of fluid power units. This book attempts to review some of the principles behind noise control design. High pressure hydraulic systems are widely used in off-highway applications, such as agricultural and construction machines. The book explains how Pumps, Motors and Valves generate airborne, structure-borne, and fluid-borne noises. It identifies hydraulic parameters that influence noise and guide planning programs for designing and developing of some quiet hydraulic components.

Print ISBN: 978-1-68251-767-3 | \$160 | 2021 | Hardcover

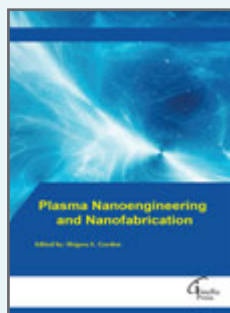


Noise and Vibration Control in Rail Transportation

Editor: Ander Eren

Railway transport is the most sustainable transport mode, as it consumes less energy, needs less space and produces less CO₂ than any other transport mode. The noise that is carried through the vehicle body mainly affects ride quality, customer experience and structural integrity of the rolling stocks, whereas the vibration that is transmitted from the rails to the supporting structure of the track plays a main role in rapid track degradation and potentially affects the surrounding structures. This book presents a collection of the latest developments in the field. This book contains the contributions by international leaders in the field of railway noise and vibration. The book highlights the practical guidelines for track vibration isolation resulting from the operation of railways. This book will serve as valuable reference to all who have to deal with noise and vibration from railways, whether working in the industry or in consultancy or in academic research.

Print ISBN: 978-1-68251-768-0 | \$160 | 2021 | Hardcover

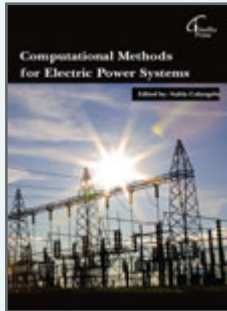


Plasma Nanoengineering and Nanofabrication

Editor: Shigeru E. Gordon

The research field of nanomaterials (NMs) has established swiftly over the last several years due to the unique electrical, optical, magnetic and catalytic properties of these materials. Plasma technology is currently gaining considerable attention as a prominent "green" synthesis method for nanomaterials, due to its identifying properties when contrasted to solid, liquid and gas phase synthesis approaches. This book highlights plasma spraying as a technique for synthesizing nanostructured coatings and bulk materials for several functional applications. In this book, you will also study the influence of plasma processing regimes on structural changes and, therefore, steel hardness. This book also summarizes other functional applications such as thermal barrier coatings, biomedical applications, sensors, near-net form processing, and solar cells.

Print ISBN: 978-1-68251-785-7 | \$160 | 2021 | Hardcover



Computational Methods for Electric Power Systems

Editor: Nahla Colangelo

The latest research directions in the Power Engineering field were motivated by the current technological developments and the gradual implementation of the “Smart Grids” concept. The planning and operation of modern power systems requires an efficient management of large databases, essential in the decision-making process, which enables obtaining the best solutions. These approaches are used in all stages of the decision-making process, but especially for overcoming difficulties in multiobjective modeling, handling of constraints, and uncertainty considerations. This book presents state-of-the-art overview on the currently applied computational methods for the simulation and analysis of electromagnetic transients in complex power systems. It is intended to highlight the innovative solutions obtained using the latest models and techniques developed in the planning and operation of modern power systems.

Print ISBN: 978-1-68251-792-5 | \$160 | 2021 | Hardcover



Operation and Control of Power Systems

Editor: Jamie Linder

Electrical energy is conserved at every step in the process of Generation, Transmission, Distribution and also utilization of electrical energy. As economies and populations grow, there is also a growing need to enhance the security, capacity and flexibility of power transmission systems. Reliable electrical grids are one of the main infrastructures supporting the developed economy and one of the key premises for the developing economy. The trend in power system planning uses tight operating margins, with less redundancy due to new constraints due to economic and environmental factors. Traditional entities involved in ensuring adequate protection and control of the system may soon become inadequate, and the emergence of new participants (nonutility generation, transmission and distribution companies) requires a coordinated approach and careful coordination of the new operating conditions. This book provides an overview of the power systems operation, control and managing tools.

Print ISBN: 978-1-68251-793-2 | \$160 | 2021 | Hardcover

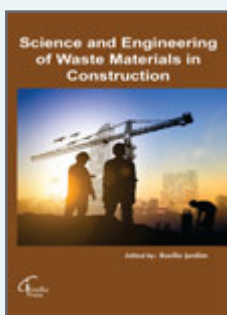


Research and Development in Surface Engineering

Editor: Michel L. Kear

Surface coating is a simple and inexpensive method for surface modification of the membrane and it can be done easily in industrial operations and also on a large scale. In this way, the membrane surface is covered by a coated layer. This book will study the material base-surface multilayer system for various types of depositions whose compatibility with the substrate provides high-quality parts. Thus, this system of layers can be applied on both the new and worn parts, being able to recondition and reintroduce in an intensive exploitation regime any parts with complex configuration operating in dynamic conditions. This book includes a review of the state of the art and industrial implementation of some of the most used surface treatment techniques for the improvement of the different types of prostheses, paying special attention to the most used solutions and the future possibilities of advanced surface treatment techniques.

Print ISBN: 978-1-68251-794-9 | \$160 | 2021 | Hardcover



Science and Engineering of Waste Materials in Construction

Editor: Basilio Jardim

Construction and construction materials industries are active in all processes: the construction industry is the main consumer of natural materials and, in turn, a substantial volume of waste comes from the demolition of buildings. The building material industry is a domain of interest for using the wastes and researchers have tried to produce new construction materials incorporating wastes. The book presents an initial understanding of the current strengths and weaknesses of the practice intended to support construction industry in developing effective policies regarding uses of waste and recycled materials as construction materials.

Print ISBN: 978-1-68251-795-6 | \$160 | 2021 | Hardcover

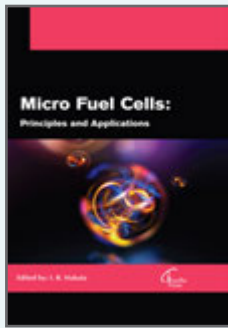


Sustainable Construction and Building Materials

Editor: Maira Guimarães

Materials are the basic components of the construction of buildings. Chemical, physical and mechanical properties of the materials as well as the correct design are responsible for the mechanical strength of the building. The aim of this book is to reflect the current state-of-the-art and new developments on the related topics that characterize the “Sustainability in Construction” research field. It also contains a wide variety of research findings on different issues that will lead to the development of the environmental footprint. This book will serve as a valuable guide for students, researchers, research scholars, teachers and other research professionals in the field of sustainable construction materials.

Print ISBN: 978-1-68251-796-3 | \$160 | 2021 | Hardcover

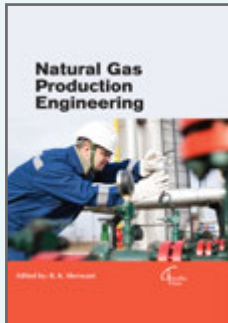


Micro Fuel Cells: Principles and Applications

Editor: I. R. Hakuta

Today we are witnessing a global energy crisis due to huge energy demands and limited resources. Non-renewable energy sources are depleting and renewable energy sources are not properly utilized. Recently, great attentions have been paid to microbial fuel cells (MFCs) due to their mild operating conditions and using variety of biodegradable substrates as fuel. This book demonstrates the improvement of MFCs with summarization of their advantageous and possible applications in future application. Also, different key factors affecting bioelectricity generation on MFCs were investigated and these key parameters are fully discussed.

Print ISBN: 978-1-68251-596-9 | \$160 | 2020 | Hardcover

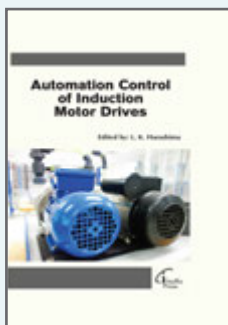


Natural Gas Production Engineering

Editor: B. K. Sherwani

As the world struggles to find new sources of energy it is clear that the Fossil fuels will continue to play a dominant role in the foreseeable future. Within the hydrocarbon family the fastest growing hydrocarbon is Natural gas. LNG demand is growing in line with the gas import needs of the Middle East and Europe as well as of China, India and a clutch of other Asian countries. In response, global LNG supplies will continue to expand. Moreover, LNG is fast becoming a truly global commodity, supply matching demand as they shift around the world. Covering the basic parameters of multiphase fluid flow, various flow regimes, and multiphase flow models, this book will serve as a valuable guide for reservoir engineers, production engineers, production geologists, and more.

Print ISBN: 978-1-68251-597-6 | \$160 | 2020 | Hardcover



Automation Control of Induction Motor Drives

Editor: L. K. Harashima

Due to the inherent advantages of induction motor as simplicity of design, high reliability, low cost and minimum maintenance, they are widely used in industrial applications. AC induction motors (IMs) are used as actuators in many industrial processes. Although IMs are reliable, they are subjected to some undesirable stresses, causing faults resulting in failure. Since technology for motion control of electric drives became available, the use of programmable logic controllers (PLCs) with power electronics in electric machines applications has been introduced in the manufacturing automation. This book focuses primarily on induction motors and their control for automation.

Print ISBN: 978-1-68251-604-1 | \$160 | 2020 | Hardcover

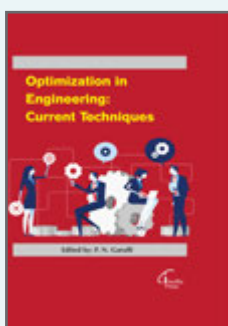


Handbook of Systems Engineering and Management

Editor: Dr. A. C. Wolgemuth

The Systems Engineering process delivers a better understanding of the client needs and helps program managers to manage change and configuration effectively through the project lifecycle. System engineering is an inter-disciplinary field of engineering that focusses on how to design, manage and optimize complex engineering systems over their life cycles. This book presents a complicated view of systems engineering from process and systems management perspectives.

Print ISBN: 978-1-68251-607-2 | \$160 | 2020 | Hardcover



Optimization in Engineering: Current Techniques

Editor: P. N. Garulli

The purpose of optimization is to achieve the "best" design relative to a set of prioritized criteria or constraints. Optimization is of critical importance in engineering. Engineers constantly strive for the best possible solutions, the most economical use of limited resources, and the greatest efficiency. It is vitally important for modern engineering and planning that incorporate optimization at every step of the complicated decision making process. The book will also appeal to advanced graduate students and researchers interested in the development and use of optimization techniques in engineering fields.

Print ISBN: 978-1-68251-608-9 | \$160 | 2020 | Hardcover



The Art and Science of Reverse Engineering

Editor: Dr. M. Y. Xiao

Reverse engineering can be mainly viewed as the process of analyzing a system to identify its components and their interrelationships, to create representations of it in another form or a higher level of abstraction. The benefits of reverse engineering have opened doors for exploring incomplete design data for components having no legitimate information. Manufacturers look upon reverse engineering as an important means to sustain competition, or some may take it as a tool to understand flaws in the design and re-work for the same. Integrating information from several different fields, this book prepares readers with the skills, knowledge, and abilities required to successfully apply reverse engineering in different fields.

Print ISBN: 978-1-68251-613-3 | \$160 | 2020 | Hardcover

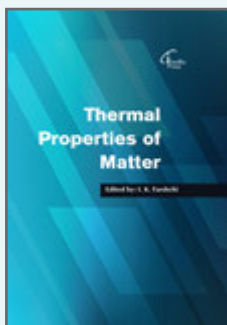


High Thermal Conductivity Materials

Editor: L.M. Munye

Thermal conductivity is the intrinsic property of a material that expresses its ability to conduct heat. This book discusses recent advances in materials engineering to control thermal conductivity. It presents theories of heat conduction for general material classes, focusing on common approximations and trends. It also discusses characterization techniques for measuring thermal conductivity and the underlying transport properties.

Print ISBN: 978-1-68251-614-0 | \$160 | 2020 | Hardcover

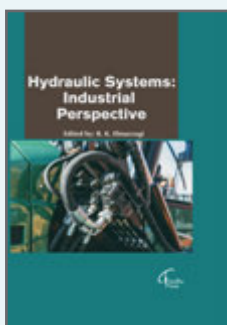


Thermal Properties of Matter

Editor: I. K. Farshchi

The Matter is defined as any substance that has mass and occupies space. Although on the microscopic level all matter is made from atoms or molecules, everyday experience tells us that the three states have very different properties. The temperature of the matter defines the state of it. Also, there are other temperature-related properties of matter like thermal conductivity, thermal diffusivity and so on. The aim of this book is to examine some of these properties and the underlying physics.

Print ISBN: 978-1-68251-615-7 | \$160 | 2020 | Hardcover



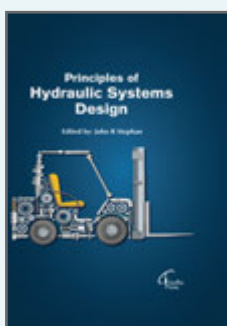
Hydraulic Systems: Industrial Perspective

Editor: R. K. Elmarzugi

In general, hydraulic systems use fewer moving parts in comparison with mechanical and electrical systems. Hydraulics forms the core technology behind many industrial companies and many of the applications we see in our daily lives. Whether it's at home or at work, whether it's in mobile or stationary applications: Life as we know it wouldn't be possible without hydraulic systems.

This book is intended to provide the most current information available on hydraulic technology covering everything you need to understand the fundamental operating principles of hydraulic systems

Print ISBN: 978-1-68251-620-1 | \$160 | 2020 | Hardcover

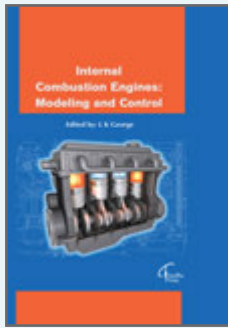


Principles of Hydraulic Systems Design

Editor: John R Stephan

Hydraulics forms the core technology behind many industrial companies and many of the applications we see in our daily lives. Whether it's at home or at work, whether it's in mobile or stationary applications: Life as we know it wouldn't be possible without hydraulic systems. Hydraulic fluids are also responsible for lubrication, heat transfer and contamination control. The book addresses hydraulic system operation and design including the issues of fluids and fluid flow, component operation and system design.

Print ISBN: 978-1-68251-621-8 | \$160 | 2020 | Hardcover



Internal Combustion Engines: Modeling and Control

Editor: L K George

The invention and development of the internal-combustion engine in the nineteenth century has had a profound impact on human life. The internal-combustion engine offers a relatively small, lightweight source for the amount of power it produces. Over the last 30 years, research and development has helped manufacturers reduce ICE emissions of criteria pollutants, such as nitrogen oxides (NO_x) and particulate matter (PM). The book describes varied topics on modelling and control of internal combustion engines.

Print ISBN: 978-1-68251-622-5 | \$160 | 2020 | Hardcover



Industrial Engineering: New Aspects

Editor: R. Joachim

Industrial engineering is important to finding the answers to many important problems in manufacturing, distribution of goods and services, health care, utilities, transportation, entertainment, and the environment. Traditionally, a major aspect of industrial engineering was planning the layouts of factories and designing assembly lines and other manufacturing paradigms. And now, in lean manufacturing systems, industrial engineers work to eliminate wastes of time, money, materials, energy, and other resources. The book discusses various concepts and provides practical knowledge related to the area of Industrial Engineering and Management.

Print ISBN: 978-1-68251-623-2 | \$160 | 2020 | Hardcover

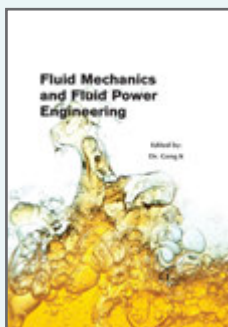


Fuzzy Control of Industrial Systems: Theory and Applications

Editor: R L McComb

In recent years, fuzzy logic has well proved its broad potential in industrial automation applications. The book describes the application of fuzzy algorithms to the control of dynamic processes. The fuzzy control algorithm is used to implement linguistically expressed heuristic control policies directly, with a view to automating those complex and poorly-defined processes where modelling difficulties and lack of suitable measurements make manual control imperative. The book presents the basic theoretical framework of crisp and fuzzy set theory, relating these concepts to industrial control engineering.

Print ISBN: 978-1-68251-624-9 | \$160 | 2020 | Hardcover

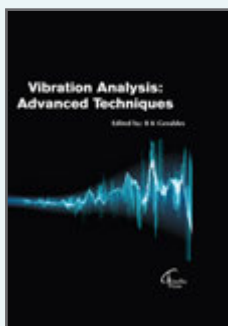


Fluid Mechanics and Fluid Power Engineering

Editor: Dr. Geng K

Fluid Mechanics is the branch of science that studies the behavior of fluids when they are in state of motion or rest. Whether the fluid is at rest or motion, it is subjected to different forces and different climatic conditions and it behaves in these conditions as per its physical properties. Fluid mechanics deals with the behavior of fluids which are either stationary or in motion and the interaction of fluids with the boundaries. This book will allow you to apply the physical principles behind some of the most common applications of fluid mechanics in engineering.

Print ISBN: 978-1-68251-625-6 | \$160 | 2020 | Hardcover

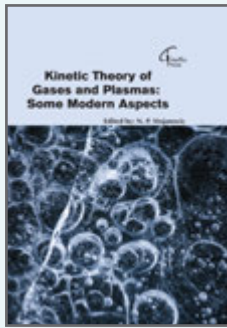


Vibration Analysis: Advanced Techniques

Editor: B K Gerald

In terms of mechanical vibrations for machine diagnosis, the vibration analysis is a very important technique. The primary goal of vibration analysis is to identify faults within a machine and then alert personnel that some type of action needs to occur. Problems start to occur when the needed frequency of the data collection is not aligned with the maintenance strategy. The book discusses the fundamental concepts of the theory, principles and methods of mechanical vibrations.

Print ISBN: 978-1-68251-626-3 | \$160 | 2020 | Hardcover



Kinetic Theory of Gases and Plasmas: Some Modern Aspects

Editor: N. P. Stojanovic

Kinetic theory can be used to deduce some of the equilibrium properties of gases, but the methods of statistical thermodynamics are more powerful in that respect. The importance of kinetic theory lies in its ability to describe nonequilibrium phenomena such as the transport of heat or of momentum in a slightly nonuniform gas or the scattering of molecules by other molecules. The book deals with the propagation and absorption of high frequency waves in plasmas.

Print ISBN: 978-1-68251-628-7 | \$160 | 2020 | Hardcover

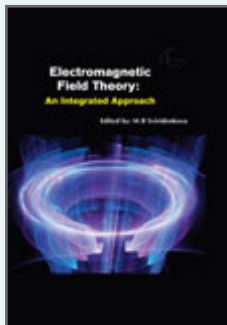


Fundamentals of Quantum Mechanics

Editor: C. Y. Stein

The theory of relativity describes the behaviour of large everyday objects in the world around us. At the level of atoms and sub-atomic particles objects behave very differently and quantum theory is an attempt to describe the behaviour of matter and energy at this sub atomic scale. This is why quantum mechanics has to be mastered as part of learning. This book contains the basic concepts and results of quantum mechanics as well as the historical background and philosophical questions.

Print ISBN: 978-1-68251-629-4 | \$160 | 2020 | Hardcover

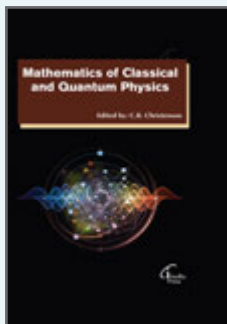


Electromagnetic Field Theory: An Integrated Approach

Editor: M B Sviridenkova

An electromagnetic field is a physical field produced by electrically charged objects. Knowledge of the principles of electromagnetism can help detect problems as well as avoid them. Electromagnetism can also cause conductors in a raceway or cable tray to move or jump, because of field interaction. This has all kinds of implications, and it must be considered during design and construction. This book includes contributions on field theory and advanced computational electromagnetics; electrical machines and transformers; optimization and interactive design; electromagnetics in materials; coupled field and electromagnetic.

Print ISBN: 978-1-68251-630-0 | \$160 | 2020 | Hardcover

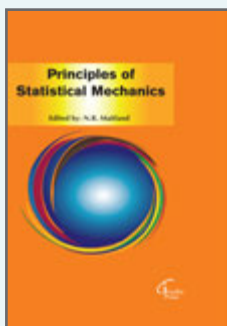


Mathematics of Classical and Quantum Physics

Editor: C.B. Christenson

Quantum mechanics is also critically important for understanding how individual atoms are joined by covalent bond to form molecules. In classical physics these ideas are mutually contradictory. Most of classical physics is now recognized to be composed of special cases of quantum physics theory and/or relativity theory.

Print ISBN: 978-1-68251-631-7 | \$160 | 2020 | Hardcover

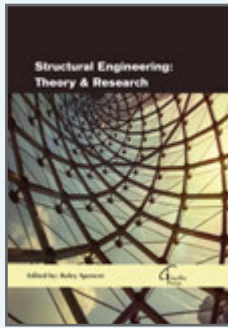


Principles of Statistical Mechanics

Editor: N.R. Maitland

Statistical mechanics can also be used to study systems that are out of equilibrium. Statistical mechanics constitutes a wide range of techniques for linking the microscopic properties of systems to its macroscopic appearance. It doesn't take a lot of imagination to see how useful that is across a huge range of research topics in physics. This book presents topics about thermodynamics, ensemble theory, simple gases theory, statistical mechanics of interacting systems, and phase transitions.

Print ISBN: 978-1-68251-636-2 | \$160 | 2020 | Hardcover

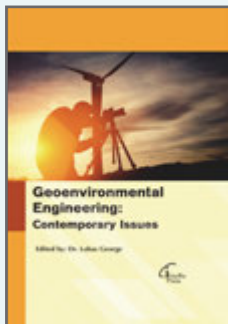


Structural Engineering: Theory & Research

Editor: Roley Spencer

Structural engineering is crucial because it directly impacts the safety and durability of buildings and structures. Structural engineers design, assess and inspect structures to ensure they are efficient and stable. Structural engineering was traditionally considered a sub-discipline of civil engineering; however, it has developed as an important and complex specialism and is now recognised as an engineering discipline in its own right. This book provides civil and structural engineers with comprehensive information on all the main principles and important elements of the subject.

Print ISBN: 978-1-68251-661-4 | \$160 | 2020 | Hardcover

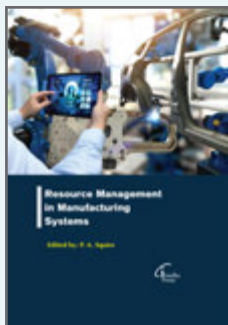


Geoenvironmental Engineering: Contemporary Issues

Editor: Dr. Lobas George

Rapid industrialization and technological advancement has led to the over-exploitation of natural resources resulting in severe pollution problems. Geotechnical engineering skills integrated with environmental engineering skills can provide "sustainable solution" for preserving the environment. There is ample scope for research in the advanced geoenvironmental and interdisciplinary fields like biotechnology, nanotechnology, micro-electro-mechanical systems (MEMS) and micro-sensors, geo-sensing, information technology, cyber-infrastructure, and multi-spatial and multi-temporal geographical data modeling, analysis, and visualization. Covering varied topics on geoenvironmental engineering, this book will prove a valuable reference for researchers and practicing engineers alike.

Print ISBN: 978-1-68251-663-8 | \$160 | 2020 | Hardcover



Resource Management in Manufacturing Systems

Editor: P. A. Squire

In organizational studies, resource management is the efficient and effective development of an organization's resources when they are needed. Manufacturing systems work with scarce resources in dynamic environments. Managers are asked to assign production facilities over time to parallel activities respecting operational constraints and deadlines while keeping resource costs as low as possible. The book focuses on new topics of interest, new treatments of more traditional areas and coverage of the applications of information and communication technology (ICT) in manufacturing.

Print ISBN: 978-1-68251-668-3 | \$160 | 2020 | Hardcover



Manufacturing Process Controls for Innovative Industries

Editor: Kitty Haardt

Manufacturing process controls include all systems and software that exert control over production processes. Control systems include process sensors, data processing equipment, actuators, networks to connect equipment, and algorithms to relate process variables to product attributes. The book aims to provide methods for achieving effective process control methods to solve related problems that occur daily and often generate cost overruns. It includes process control systems including process sensors, data processing equipment, actuators, networks to connect equipment, and algorithms to relate process variables to product attributes. It will also be of interest to practitioners in manufacturing systems and operations managers in industry.

Print ISBN: 978-1-68251-669-0 | \$160 | 2020 | Hardcover



Surface Technology of Nanomaterials

Editor: R. A. Wilhelm

It is increasingly recognized that nanomaterials present a range of characterization challenges that have the potential to inhibit or delay the scientific and technological impact of nanoscience and nanotechnology. Concerns related to adequate characterization of nanomaterials are not new, and a variety of issues have been highlighted by many research groups, multi-organizational teams of researchers, and the scientific press. This book examines characterization challenges inherently associated with understanding nanomaterials and the roles surface and interface characterization methods can play in meeting some of the challenges.

Print ISBN: 978-1-68251-670-6 | \$160 | 2020 | Hardcover

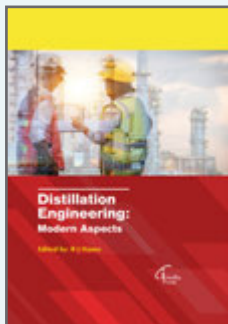


Manufacturing Planning: Current Approaches

Editor: Dr. I Lukášová

Like other manufacturing industry, Production planning and Control (PPC) department is one of the most important department in garment manufacturing industry. Planning plays an important role for any successful business, but it's hard to find a case where planning or scheduling would have as great an impact as with manufacturing companies, where bad production planning might be a beginning of a disaster or proper planning may be a strong competitive advantage. This book investigates the specific planning environment of an automotive part manufacturer and characterizes this environment based on variables regarding the product, its demand and the manufacturing process.

Print ISBN: 978-1-68251-671-3 | \$160 | 2020 | Hardcover

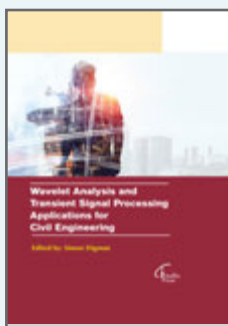


Distillation Engineering: Modern Aspects

Editor: R J Hanes

Despite the need for quality, many operations have forgotten or ignored the importance of distillation. Distillation is used to separate components in a feed mixture based upon their relative boiling points. A simple, continuous column can make the separation between two components into two product streams. In chemical engineering and industrial applications, distillation has a universally important role in a wide range of applications for purified products, solvent recovery and green technologies. Engineers as well as other professionals working in process facilities that use distillation to separate materials will find that this book valuable.

Print ISBN: 978-1-68251-672-0 | \$160 | 2020 | Hardcover

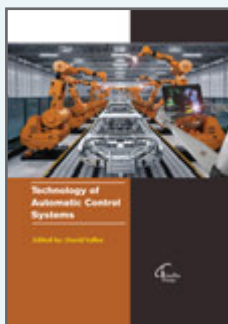


Wavelet Analysis and Transient Signal Processing Applications for Civil Engineering

Editor: Simon Digman

The principles of wavelets can be applied to a range of problems in civil engineering structures, such as earthquake-induced vibration analysis, bridge vibrations, and damage identification. This book discusses these considerations in the context of the wavelet's multiresolution character and includes guidelines for selection of wavelet central frequencies, highlights their role in complete modal separation, and quantifies their contributions to end-effect errors, which may be minimized through a simple padding scheme.

Print ISBN: 978-1-68251-673-7 | \$160 | 2020 | Hardcover

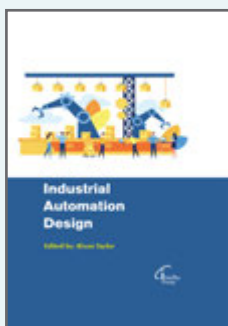


Technology of Automatic Control Systems

Editor: David Vallee

Automatic control systems, wherein a variable quantity is made to conform to a predetermined level, have been in use for several centuries; but, as with much technological development, the most rapid advances have taken place during recent years. Advantages commonly attributed to automation include higher production rates and increased productivity, more efficient use of materials, better product quality, improved safety, shorter workweeks for labour, and reduced factory lead times. This book presents the fundamental principles and challenges encountered in the automatic control of systems, providing practical solutions and signifying alternatives.

Print ISBN: 978-1-68251-674-4 | \$160 | 2020 | Hardcover

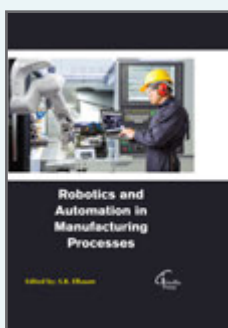


Industrial Automation Design

Editor: Rixon Taylor

Over the past years, there has been a positive growth in the global industrial automation industry. Optimized production processes are essential to achieve a good competitive position. Automation in the industrial workplace provides the advantages of improving productivity and quality while reducing errors and waste, increasing safety, and adding flexibility to the manufacturing process. This book provides an extended overview and fundamental knowledge in industrial automation, while building the necessary knowledge level for further specialization in advanced concepts of industrial automation. This is an invaluable reference for novices and seasoned automation professionals as well.

Print ISBN: 978-1-68251-675-1 | \$160 | 2020 | Hardcover

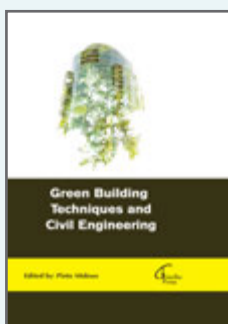


Robotics and Automation in Manufacturing Processes

Editor: S.R. Elbaum

The automated production processes help manufacturers increase their profit potential and meet market expectations. Robotics improves the overall efficiency of a manufacturing process by creating efficient means of completing production tasks. The application of machines to tasks once performed by human beings or, increasingly, to tasks that would otherwise be impossible. This book will serve as an updated tool of research activities that bring together various theories, methods, and technologies of robotic systems and automation for manufacturing and related fields.

Print ISBN: 978-1-68251-676-8 | \$160 | 2020 | Hardcover

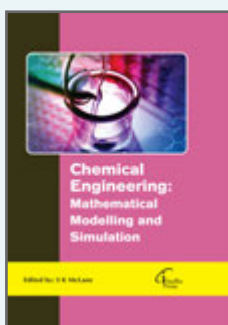


Green Building Techniques and Civil Engineering

Editor: Pinto Midoux

The growth and development of our communities has a large impact on our natural environment. The manufacturing, design, construction and operation of the buildings in which we live and work are responsible for the consumption of many of our natural resources. Today, green building is the practice of designing, constructing, and operating buildings to: minimize resource use, reduce waste and negative environmental impacts, maximize occupant health and productivity, and decrease life cycle costs. The book includes green building techniques such as earth and straw bale buildings and is intended for housing professionals, students, and teachers.

Print ISBN: 978-1-68251-677-5 | \$160 | 2020 | Hardcover

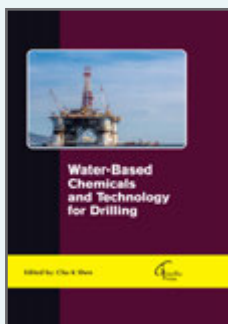


Chemical Engineering: Mathematical Modelling and Simulation

Editor: S K McLane

Chemical engineering has evolved into a very demanding discipline extending to a wide spectrum of industries and requiring a wide spectrum of knowledge in many diversified fields. It is argued, in this book, that the fast expansion of the domain of chemical engineering necessitates a new approach to chemical engineering education. It is suggested, and discussed, that this new approach should be based upon system theory and mathematical modelling in order to achieve a higher level of generalization and economy of information, which will allow the training of the chemical engineers for the diverse chemical and related industries without violating their natural incompressibility.

Print ISBN: 978-1-68251-678-2 | \$160 | 2020 | Hardcover

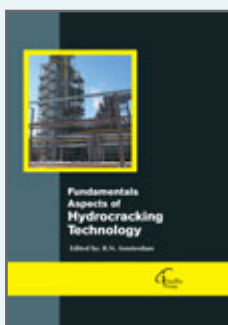


Water-Based Chemicals and Technology for Drilling

Editor: Chu K Shen

When water-based drilling fluid contacts formation rock, it causes the propagation of crack and invasion of drilling fluid, which decrease shale strength and cause wellbore instability. This book provides some examples of using water as an alternative solvent for chemical reactions with wide-ranging possibilities that include direct use of water soluble renewable materials, C-C bond forming reactions using organometallic reagents, and exploiting the use of alternate energy sources such as solar, microwave and ultrasound in accelerating chemical syntheses.

Print ISBN: 978-1-68251-679-9 | \$160 | 2020 | Hardcover



Fundamentals Aspects of Hydrocracking Technology

Editor: R.N. Amsterdam

Hydrocracking is a cracking process in which higher-molecular-weight hydrocarbons pyrolyze to lower-molecular-weight paraffins and olefins in the presence of hydrogen. Modern hydrocracking processes were initially developed for converting refractory feedstocks to gasoline and jet fuel; and process and catalyst improvements and modifications have made it possible to yield products ranging from gases and naphtha to furnace oils and catalytic cracking feedstocks. Presenting advances in the field of hydrocracking, the book includes catalytic materials, reaction mechanisms and pathways, as well as hydrocracking processes and applications.

Print ISBN: 978-1-68251-680-5 | \$160 | 2020 | Hardcover

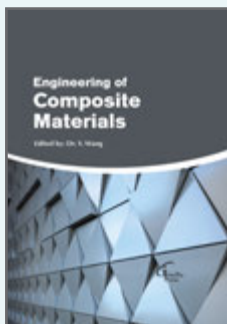


Technology of 3D Printing and Additive Manufacturing

Editor: Dr. N P Fuchimoto

In recent years, 3D printing has developed significantly and can now perform crucial roles in many applications, with the most important being manufacturing, medicine, and architecture. Using the additive process, layers of materials in liquid, solid or material form are fused together. 3D printers thus use additive manufacturing or direct digital manufacturing technology to produce proto type of a product. This book contains selected topics on advanced technologies for 3D printing and additive manufacturing and how these technologies have changed the face of direct, digital technologies for rapid production of models, and prototypes.

Print ISBN: 978-1-68251-686-7 | \$160 | 2020 | Hardcover



Engineering of Composite Materials

Editor: Dr. Y. Wang

Composites are light in weight, compared to most woods and metals. Their lightness is important in automobiles and aircraft, where less weight means better fuel efficiency. Composite materials can be designed to be both strong and light. In particular it combines high strength and low weight, while at the same time it is non-corrosive and has thermal and electrical insulation properties. Using composites rather than conventional materials such as steel usually provides major weight savings. Focusing on the relationship between structure and properties, this book covers a well-balanced treatment of the mechanics and the materials science of composites

Print ISBN: 978-1-68251-687-4 | \$160 | 2020 | Hardcover

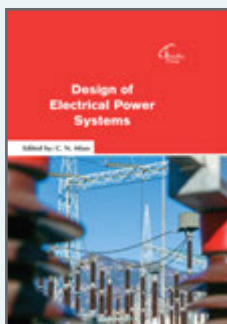


Mechanical Behavior of Materials: Engineering Methods

Editor: K L Weaver

Strength of materials, also called mechanics of materials, is a subject which deals with the behavior of solid objects subject to stresses and strains. An adequate physical and mathematical description of material behavior is basic to all engineering applications. Fortunately, many problems may be treated entirely within the framework of elastic material response. Thus, during the last ten years particularly, there has been considerable effort expended toward the generation of both experimental data on the dynamic mechanical response of materials as well as the formulation of realistic constitutive theories. This outstanding work offers a wide-ranging treatment of the principles of the mechanical behavior of materials.

Print ISBN: 978-1-68251-688-1 | \$160 | 2020 | Hardcover

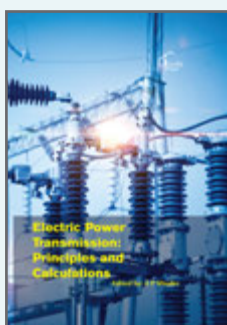


Design of Electrical Power Systems

Editor: C. N. Miao

A power system is the high voltage electrical grid with all its components: generation, transmission, distribution and protection, it is a field with the utmost importance (as important as electricity itself). The power systems that are of interest for our purposes are the large scale, full power systems that span large distances and have been deployed over decades by power companies. The book includes topics such as fundamentals of energy-handling electric circuits, power electronic circuits such as inverters, and electromechanical apparatus.

Print ISBN: 978-1-68251-689-8 | \$160 | 2020 | Hardcover

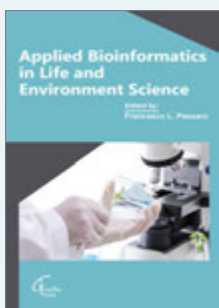


Electric Power Transmission: Principles and Calculations

Editor: A P Khuder

Electric power transmission is the bulk movement of electrical energy from a generating site, such as a power plant, to an electrical substation. Although huge infrastructural projects for the development of interconnections are at several stages, the associated transmission burdens are not yet fully incorporated in the respective socioeconomic analysis. In this respect, the aim of this book is to present a collective summary of electricity transmission burdens and their associated impacts.

Print ISBN: 978-1-68251-690-4 | \$160 | 2020 | Hardcover

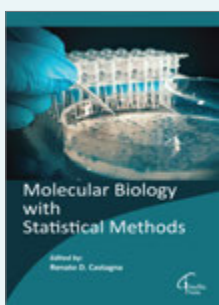


Applied Bioinformatics in Life and Environment Science

Editor: Francesco L. Passaro

Bioinformatics involves close relation between biology and computers that influence each other and synergistically merging more than once. Bioinformatics techniques have been developed to identify and analyze various components of cells such as gene and protein function, interactions and metabolic and regulatory pathways. It is demanding transformation of basic ethos of biological sciences. This book is aimed to provide information on bioinformatics at various levels. The chapters included in this book cover introductory to advanced aspects, including applications of various documented research work and specific case studies related to bioinformatics. This book will be of immense value to readers of different backgrounds such as engineers, scientists, consultants and policy makers for industry, government, academics and social and private organisations.

Print ISBN: 978-1-68251-694-2 | \$155 | 2021 | Hardcover



Molecular Biology with Statistical Methods

Editor: Renato D. Castagna

The importance of computer simulations in understanding cellular processes is now widely accepted; a variety of algorithms have been developed to study these biological networks. This progressive book presents the basic principles of proper statistical analyses. It progresses to more advanced statistical methods in response to rapidly developing technologies and methodologies in the field of molecular biology. This book will serve for students and practitioners in the areas of statistics, biostatistics, computer science, and related fields in applied mathematics; this book presents various approaches to help students solve problems at the interface of these areas.

Print ISBN: 978-1-68251-695-9 | \$155 | 2021 | Hardcover

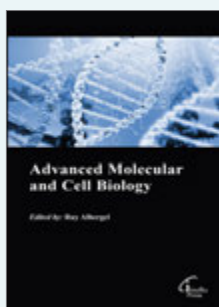


Principles and Techniques of Gene Manipulation

Editor: Andrea Galende

The applications of genetic engineering are now so widespread and well established within the biomedical sciences that it is difficult for younger investigators to envisage what research life was like in the era before genetic engineering. This book contains state of the research and developments insight into the modern tools of genome editing, their hurdles and their huge potential. Classical field of genetic engineering and some of its advancements are discussed in this book. Complex studies are being carried out around the world independently to evaluate the advantages and disadvantages of GM foods. The book attempts to summarize up-to-date knowledge about the benefits and potential problems of GM food. This book also introduce some recent technological developments in GM foods and their impact in the field.

Print ISBN: 978-1-68251-696-6 | \$155 | 2021 | Hardcover

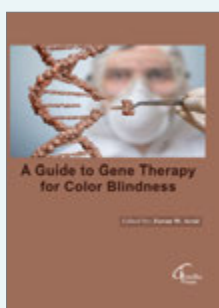


Advanced Molecular and Cell Biology

Editor: Ruy Albergel

Cell biology is increasingly important in each aspect of life sciences. Many of the advancements in contemporary science are the result of a better understanding of cellular components and their functions. This book compiles numerous internationally renowned authors presenting the research results or review of current knowledge in the general area of cellular and molecular biology and related areas of biochemistry, developmental biology, genetics, immunology, cancer research, microbiology, neurobiology, plant biology, structural biology and virology. This book will serve to cellular and molecular biologists, developmental biologists, microbiologists, geneticists, immunologists, neurobiologists, physiologists, plant cell biologists, virologists, protistozoologists, light and electron microscopists, biophysicists.

Print ISBN: 978-1-68251-707-9 | \$155 | 2021 | Hardcover

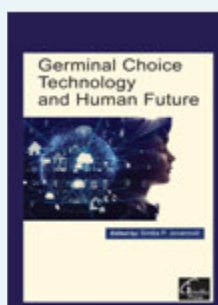


A Guide To Gene Therapy for Color Blindness

Editor: Zoran W. Arsić

Gene therapy is a novel treatment method which utilizes genes or short oligonucleotide sequences as therapeutic molecules, instead of conventional drug compounds. This technique is widely used to treat those defective genes which contribute to disease development. This book outlines methods available for gene transfer as well as current and potential applications for craniofacial regeneration, with emphasis on future development and design. The process of gene therapy remains complex and many techniques need further developments. The challenge of developing successful gene therapy for any specific condition is considerable. This book will be of beneficial to students and practitioners who would benefit from seeing the phenotypes of the genes they work on and study.

Print ISBN: 978-1-68251-710-9 | \$155 | 2021 | Hardcover

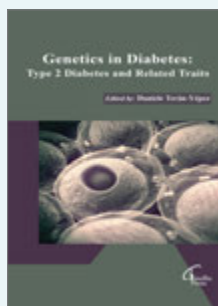


Germinal Choice Technology and Human Future

Editor: Siniša P. Jovanović

In the past decade, the human genome has been completely sequenced and the knowledge from it has begun to influence the fields of biological and social sciences in fundamental ways. The issues of cloning, gene therapy, and embryonic stem cell research have been at the headlines of many newspapers and magazines for over a decade in many countries throughout the world. This book examines the likely impacts of emerging technologies that will give prospective parents the potential to directly influence the genetics of their offspring. The primary focus is on advanced prenatal genetic diagnosis (PGD) for both disease and non-disease traits, since this is likely to emerge before such possibilities as direct germline engineering. This book also highlights on today's debate about cloning and other such issues in the life sciences, looking at the driving forces behind these discussions and the tensions likely to develop in the next few decades.

Print ISBN: 978-1-68251-711-6 | \$155 | 2021 | Hardcover

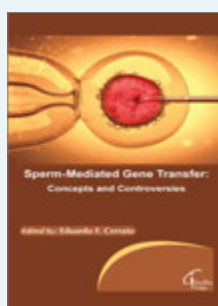


Genetics in Diabetes: Type 2 Diabetes and Related Traits

Editor: Daniele Terán-Yépez

The genetic component of the more common form of type 2 diabetes is probably complex and involves the interactions of multiple genes and environmental factors. Until recently, only a few loci were known, but this is changing rapidly as a result of the development of high-density genotyping arrays that have permitted genome-wide association studies. This book provides state of the art information and reviews the evidence that insulin resistance has a genetic basis. The genetic component of the more common form of type 2 diabetes is probably complex and involves the interactions of multiple genes and environmental factors. This book provides new insights into the identification of novel genes and pathways that lead to this complex disease. Progress to date toward identifying specific gene variants is reviewed.

Print ISBN: 978-1-68251-712-3 | \$155 | 2021 | Hardcover



Sperm-mediated Gene Transfer: Concepts and Controversies

Editor: Eduardo F. Cerrato

Genetic engineering is the use of molecular biology technology to modify DNA sequence(s) in genomes, using a variety of approaches. The rapid developments in the field of genetic engineering have given a new impetus to biotechnology. This book is aimed to cover research and developments on the sperm-mediated gene transfer methods that is gene transfer based on the spontaneous ability of sperm cells to bind and internalize exogenous DNA and to carry it to oocyte during fertilization, producing genetically modified animals with high efficiency. The success led to a new interest in transgenic technology because of its simplicity, although various methods have been successfully used to create transgenic animals. This book brings together theoretical and experiential reviews from experts in SMGT, providing comprehensive coverage of the major trends, developments and controversies in this novel field.

Print ISBN: 978-1-68251-713-0 | \$155 | 2021 | Hardcover

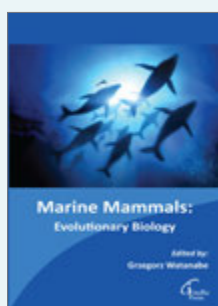


Reproductive Physiology of Mammals and Other Vertebrates

Editor: Luisa Kraft

The science of reproductive biology has undergone remarkable advances in the 20th century. These advances provide structural and functional details of the mammalian reproductive system at the physiological, cellular and molecular levels. This book will review the general concepts in mammalian reproductive biology and present, in a brief form, some of the most common reproductive technologies used in human and animal health, biomedical research and animal production systems. The book represents a comprehensive and integrated treatment of reproduction in vertebrates from fishes of all sorts through mammals. It is designed to provide to the latest trends in reproductive research and our understanding of reproductive events.

Print ISBN: 978-1-68251-728-4 | \$155 | 2021 | Hardcover

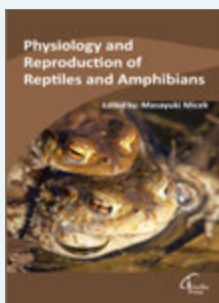


Marine Mammals: Evolutionary Biology

Editor: Grzegorz Watanabe

Mammals have incredible biological diversity, showing extreme flexibility in eco-morphology, physiology, life history and behavior across their evolutionary history. Undoubtedly, mammals play an important role in ecosystems by providing essential services such as regulating insect populations, seed dispersal and pollination and act as indicators of general ecosystem health. However, the macroecological and macroevolutionary processes underpinning past and present. This book aims to provide a comprehensive overview of the current knowledge of marine mammals with a particular emphasis on their physiological adaptations to the aquatic environment and its implications for the conservation of the numerous species that populate marine ecosystems. The book is intended to review and synthesize these new studies, exploring the past and present ecology and evolution of mammalian biodiversity, and use these findings to speculate about the mammals of our future.

Print ISBN: 978-1-68251-729-1 | \$155 | 2021 | Hardcover

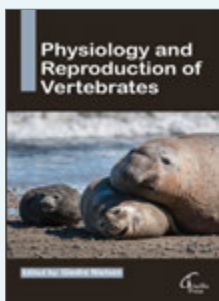


Physiology and Reproduction of Reptiles and Amphibians

Editor: Masayuki Micek

Reptiles historically have carried the stigma of being unintelligent, uncharismatic, and easy to care for, with minimal husbandry needs. Reptiles and amphibians are ectothermic vertebrate animals with a wide distribution on the planet. Reptiles and amphibians have always been of great importance to society, so it is our responsibility to conserve them today and to ensure that these biological groups continue to exist in the future. This book presents the current trends in herpetology, focusing on evolution, conservation, ecology, genetics, morphology, physiology, and taxonomy. Currently, both amphibians and reptiles face serious threats that place them at risk of disappearing. With emphasis on behavior, biochemistry, conservation, ecology, evolution, morphology, physiology, and systematics, this book will help to equip students and researchers on the current problems that arise in this interesting biological group.

Print ISBN: 978-1-68251-730-7 | \$155 | 2021 | Hardcover

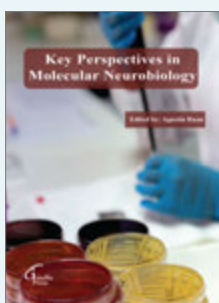


Physiology and Reproduction of Vertebrates

Editor: Giedre Nielsen

Vertebrates are the most advanced organisms on Earth. Their population is autonomic and independent of changes in the phytocenosis. However, vertebrates are of great importance in the energy and structure of various ecosystems, including the whole biosphere. This book will examine the biology of vertebrate reproduction. It will discuss a wide range of topics including the genetics of sex determination, the evolution of sex, wildlife contraception, the biology of fertilization, the evolution of maternal recognition of pregnancy, environmental estrogens, to name a few. Other topics include embryonic diapause, role of environmental estrogens on reproductive physiology, parental care, pregnancy disorders and aging of the reproductive system. The book presents a comprehensive and integrated treatment of reproduction in vertebrates from fishes through mammals.

Print ISBN: 978-1-68251-731-4 | \$155 | 2021 | Hardcover



Key Perspectives in Molecular Neurobiology

Editor: Agustín Ruan

Neuroscience is inherently interdisciplinary in its quest to explain the brain. Like all biological structures the brain operates at multiple levels, from nano-scale molecules to meter-scale systems. Within only 17 years, the 21st century has changed neuroscience. After decades in which molecular neuroscience was pre-eminent, systems neuroscience is now in ascendance. New technologies have made it possible to map neural circuits in vivo, to visualize neuronal activity in real time, and to manipulate neural activity in behaving animals. This book is designed to synthesize and critically assess research trends in experimental and clinical neuroscience at the molecular level. It highlights the progress at the forefront of contemporary molecular brain research. The book is specifically designed to synthesize and critically assess research trends for all neuroscientists at the cutting edge of this dramatically developing area.

Print ISBN: 978-1-68251-742-0 | \$155 | 2021 | Hardcover

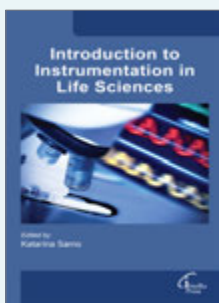


Advanced Primatology

Editor: Andrea L. Nguyen

Primatology is an important sub-field of anthropology. Primatology involves the study of primates and can help anthropologists better understand both our similarities to primates and the course of human evolution. The book provides an overview of the order primates, a broad understanding of primate behavior, and an introduction to different field techniques. This book examines the behavior and evolution of modern non-human primates. Primates include monkeys, apes, lemurs and other prosimians. It covers the science and ethical debates behind primate conservation. Specifically, it will examine the various threats facing primate populations today, the ways that scientists define and monitor threatened/endangered populations, and the steps that are being taken to increase the likelihood of their survival.

Print ISBN: 978-1-68251-763-5 | \$155 | 2021 | Hardcover

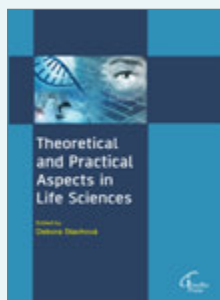


Introduction to Instrumentation in Life Sciences

Editor: Katarína Sarno

Life sciences have become much more diverse. The process for discovering new drugs has become more advanced technologically. Combinatorial chemistry and recent social demands for health care are reducing medical costs, point of care and total life care. This book addresses different aspects of instrumentation that hold the keys to cutting-edge research and innovative applications. The book focuses on the principle and instrumentation of the biological tools, not the protocols. Students are introduced to different aspects of basic experimental methods and instrumentation used in life sciences. It also presents an emphasis to the techniques encountered both in practical classes and also in high-throughput technique involved in the modern era of commercialization and product inventories.

Print ISBN: 978-1-68251-773-4 | \$155 | 2021 | Hardcover



Theoretical and Practical Aspects in Life Sciences

Editor: Debora Stachová

Experimental protocols are key when planning, performing and publishing research in many disciplines, especially in relation to the reporting of materials and methods. However, they vary in their content, structure and associated data elements. This book presents a guideline for describing key content for reporting experimental protocols in the domain of life sciences, together with the methodology followed in order to develop such guideline. The book provides a wide-ranging coverage of areas in the interdisciplinary fields of life sciences, pharmacy, medical and paramedical sciences, and biotechnology.

Print ISBN: 978-1-68251-774-1 | \$155 | 2021 | Hardcover



Latest Methodologies in Cryopreservation

Editor: Alberto Fatoki

Cryopreservation is to preserve and store the viable biological samples in a frozen state over extended periods of time. A very important part research in cryopreservation is to reveal the underlying physical and biological responses of the cell and cause of cryoinjury, especially those associated with the phase change of water in extracellular and intracellular environments. This book addresses representative cryopreservation processes, such as slow freezing and vitrification, and the available cryoprotective agents. In addition, some adverse effects of cryopreservation are mentioned. This book also covers state of the art principles of cryopreservation as they relate the preservation of viable cells and cell materials being developed for pharmaceutical and biotechnical applications.

Print ISBN: 978-1-68251-775-8 | \$155 | 2021 | Hardcover



Principles and Applications of Molecular Diagnostics

Editor: Olawale Ciriza

Molecular diagnostics has become a growing part of the clinical laboratory. It includes all tests and methods to identify a disease and understand the predisposition for a disease analyzing DNA or RNA of an organism. Rapid advances in molecular diagnostics enables basic research and results in practical diagnostic tests. The molecular diagnostic marketplace offers a growth opportunity given the interest in utilizing molecular tools to precisely target therapeutics. Molecular diagnostics and biosensors are widely used in medicine, agriculture, industry, and research, as well as environmental, military, and criminal investigations. This book compiles state of the art research and developments on the use of nucleic acids in molecular diagnostic testing will be described. Real world examples will be discussed to illustrate technical capabilities as well as the medical relevance of such testing.

Print ISBN: 978-1-68251-776-5 | \$155 | 2021 | Hardcover

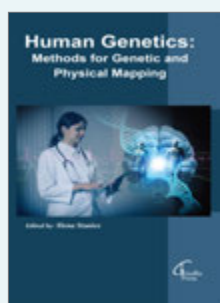


Cellular and Developmental Biology

Editor: Iwona Garnevska

Interest in embryology can be outlined back to the times of Aristotle, but it was really the discovery of the microscope in the mid-seventeenth century that propelled the fields of modern cell and developmental biology. This book compiles a wide spectrum of cell and developmental biology, covering intracellular and extracellular dynamics, with sections focusing on signaling, cell adhesion and migration, cell growth and division, cell death and survival, membrane trafficking and epigenetic regulation. It also focuses on the evolution, development, growth, regeneration, and functions of the cells while tracing the disorders it may attract. It also underlines the importance of addressing cell disorders that may lead to a plethora of other chronic diseases. Additionally, the book offers information dedicated to the cutting edge of fundamental and translational research in molecular medicine and stem cell biology.

Print ISBN: 978-1-68251-777-2 | \$155 | 2021 | Hardcover

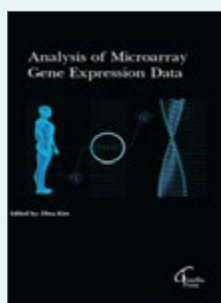


Human Genetics: Methods for Genetic and Physical Mapping

Editor: Elena Staniec

The genetic code information programs the embryogenesis. Human genetic research generates knowledge with the potential to improve individual and community health. Research can also reveal information about an individual's susceptibility to disease and hence about the individual's future health. Mapping also provides clues about which chromosome contains the gene and precisely where the gene lies on that chromosome. Furthermore, new approaches for the detection of DNA polymorphism are constantly emerging. This book covers these hot topics in considerable detail, and is set apart by its combination of genetic and physical mapping. The book explains current strategies for mapping genomes of organisms and explores applications of gene mapping to human. In this book the three phases of prenatal development the pre-embryonic, the embryonic and the fetal are elaborated.

Print ISBN: 978-1-68251-778-9 | \$155 | 2021 | Hardcover



Analysis of Microarray Gene Expression Data

Editor: Elina Kim

Microarrays are considered as a technology in which 1000's of nucleic acids are bound to the surface and are applied to measure the relative concentration of nucleic acid sequences in a mixture through hybridization and subsequent detection of hybridization events. This book is intended to present a critical overview of the current state of the art of the subject. This information can help researchers develop genetic testing to identify disease, and work on treatments to address specific genetic conditions. Gene libraries can also be stored for future reference and additional projects. It highlights on microarray gene expression analysis to evaluate cell type specific expression of targets relevant for immunotherapy of hematological malignancies. This book also proposes a new method for processing RNA-seq data that yields gene expression estimates that are much more similar to corresponding estimates from microarray data, hence greatly improving cross-platform comparability.

Print ISBN: 978-1-68251-780-2 | \$155 | 2021 | Hardcover



Gene Silencing: Potential Applications of Nanotechnology

Editor: Dr. Brinster L.

Nanotechnology has seen many advances in recent years, both in terms of the development of novel materials, often with tunable properties and applications in a growing number of areas. An area of particular interest, and the topic of this book, is gene silencing. With the rapid development of nanotechnology in the recent decade, novel DNA and RNA delivery systems for gene therapy have become available that can be used instead of viral vectors. This book provides readers with a comprehensive review of various gene silencing methodologies and its applications.

Print ISBN: 978-1-68251-590-7 | \$155 | 2020 | Hardcover

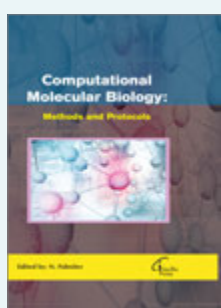


Nanomaterials and Polymers in Gene Delivery: Principles and Applications

Editor: P K Bausinger

Gene therapy, an approach for treatment or prevention of diseases associated with defective gene expression, involves the insertion of a therapeutic gene into cells, followed by expression and production of the required proteins. This approach enables replacement of damaged genes or expression inhibition of undesired genes. This book covers recent developments related to various non-viral gene delivery systems with a basis in nanotechnology. The book is organized based on the nature of the nanomaterials: inorganic; graphene (carbon nanotubes); proteins and peptides; lipids; and other polymers. It introduces the most important cationic polymers used for gene delivery.

Print ISBN: 978-1-68251-591-4 | \$155 | 2020 | Hardcover

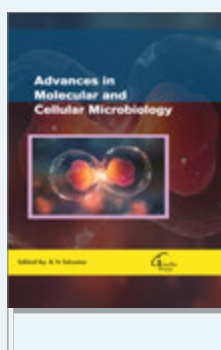


Computational Molecular Biology: Methods and Protocols

Editor: N. Palmiter

Computational molecular biology is an active area of research. A good understanding of basic algorithms in the field of computational molecular biology is of paramount importance to bioinformatics researchers, especially those who intend to work at the cutting edge of research. For this reason, bioinformatics researchers who have skills in novel algorithm development will have a competitive edge both in industry and academia. This book covers applications of computational techniques to biological problems.

Print ISBN: 978-1-68251-592-1 | \$155 | 2020 | Hardcover

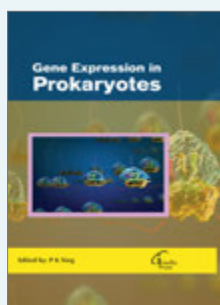


Advances in Molecular and Cellular Microbiology

Editor: K N Tatsuma

Molecular and cell biology have a great deal to offer tropical medicine in the future. As well as helping to understand the population genetics and dynamics. Cellular microbiology is revealing how pathogenic bacteria interact with host cells in what is turning out to be a complex evolutionary battle of competing gene products. The application of molecular and cell biology to the study of human disease, or molecular medicine as it is rather optimistically called, has developed on the back of the technical advances of molecular biology. Focusing on the interaction of microorganisms and the host cell, presenting detailed experimental techniques for modern microbiological research, this book will serve as comprehensive examination of this burgeoning area of important research.

Print ISBN: 978-1-68251-593-8 | \$155 | 2020 | Hardcover

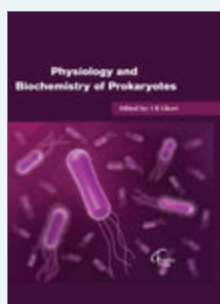


Gene Expression in Prokaryotes

Editor: P K Xing

The regulation of gene expression in prokaryotic cells occurs at the transcriptional level. Prokaryotes only transcribe genes that their end-proteins are needed at the time. The regulation of gene expression is depended mainly on their immediate environment, for example on the presence and absence of nutrients. Control of gene expression is at the level of transcription. If a gene is not transcribed then the gene product and ultimately the phenotype will not be expressed. This book attempts to present some of the recent work on regulation of gene expression in prokaryotic cells valuable to students and practitioners dealing with the subject of biochemistry, molecular biology, and microbiology will also find this book useful.

Print ISBN: 978-1-68251-594-5 | \$155 | 2020 | Hardcover

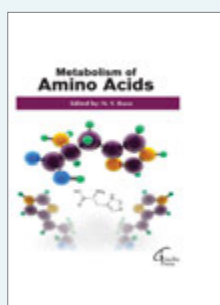


Physiology and Biochemistry of Prokaryotes

Editor: I R Likert

Prokaryotes are important to all life on Earth for a number of reasons. They play a critical role in the recycling of nutrients by decomposing dead organisms and allowing their nutrients to be re-used. Despite their primitive construction, prokaryotes are the most populous life on the planet, outnumbering every other form of life, combined, by many orders of magnitude. Without prokaryotes, no other life would exist. This book is a comprehensive reference work on Bacteria and Achaea with special emphasis on physiology and biochemistry.

Print ISBN: 978-1-68251-656-0 | \$155 | 2020 | Hardcover



Metabolism of Amino Acids

Editor: N. Y. Roco

All tissues have some capability for synthesis of the non-essential amino acids, amino acid remodeling, and conversion of non-amino acid carbon skeletons into amino acids and other derivatives that contain nitrogen. The small intestines, liver, kidneys, and muscle are organs that play an essential role in amino acid metabolism. This book provides a comprehensive look on metabolism of amino acids.

Print ISBN: 978-1-68251-657-7 | \$155 | 2020 | Hardcover



Nucleic Acid Structure and Recognition

Editor: Dr. Jikawa Miller

Nucleic acids are molecules that allow organisms to transfer genetic information from one generation to the next. Nucleic acids are the most important macromolecules for the continuity of life. They carry the genetic blueprint of a cell and carry instructions for the functioning of the cell. Nucleic acids thus control the information that makes every cell, and every organism, what it is. Providing a detailed view of the molecular structures of DNA and RNA and how they are recognised by small molecules and proteins, this book is a valuable guide for materials scientists, physicians, chemists and engineers, but is also ideal for clinicians wishing to expand their knowledge.

Print ISBN: 978-1-68251-681-2 | \$155 | 2020 | Hardcover



Mechanisms of DNA Conformation and Transcription

Editor: Dr. R. Zhang

DNA conformations can be interconverted by relatively mild changes in conditions or can coexist in a single, continuous double helix. The importance of the conformation of the DNA template for in vitro transcription experiments was investigated using a mitochondrial RNA polymerase preparation from *Xenopus laevis* oocyte mitochondria. The transcribed DNA message, or RNA transcript, is used to produce proteins. DNA is housed within the nucleus of our cells. It controls cellular activity by coding for the production of proteins. This book provides state of the art coverage of the field by covering history of the field, up-to-date topics, clarifications of present day research, and future perspective of what is still to be discovered.

Print ISBN: 978-1-68251-682-9 | \$155 | 2020 | Hardcover



Bacterial Infections: Epidemiology and Control

Editor: Dr. Jion Zhang

Many human infections are caused by either bacteria or viruses. Bacteria are tiny single-celled organisms, thought by some researchers to be related to plants. They are among the most successful life forms on the planet, and range in habitat from ice slopes to deserts. Presenting the role of various bacterial pathogens affecting the host system, this book will serve as a reference work for both laboratory and field scientists who are shaping the emerging field of molecular epidemiology.

Print ISBN: 978-1-68251-644-7 | \$155 | 2020 | Hardcover

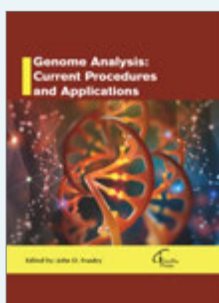


Parasitology: Current Trends

Editor: L N Uzomba

Parasites are fascinating and have massive impacts on large animals including humans. Monitoring parasites in animals that are capable of being transmitted to humans is another important function of parasitologists. Despite their documented effects on trophic interactions and community structure, parasites are rarely included in food web analyses. This book provides comprehensive coverage of the organisms that parasitize humans.

Print ISBN: 978-1-68251-645-4 | \$155 | 2020 | Hardcover



Genome Analysis: Current Procedures and Applications

Editor: John D. Frauley

Today, DNA sequencing on a large scale—the scale necessary for ambitious projects such as sequencing an entire genome—is mostly done by high-tech machines. Genome analysis entails the prediction of genes in uncharacterized genomic sequences. Scientists also hope that being able to study the entire genome sequence will help them understand how the genome as a whole works—how genes work together to direct the growth, development and maintenance of an entire organism. In this book, eminent experts of the field highlights and review current advances in genome analysis.

Print ISBN: 978-1-68251-648-5 | \$155 | 2020 | Hardcover



Recombinant DNA and Biotechnology: Current Trends

Editor: San Jia Zhang

The advent of recombinant DNA technology revolutionized the development in biology and led to a series of dramatic changes. Recombinant DNA technology has also proven important to the production of vaccines and protein therapies such as human insulin, interferon and human growth hormone. It is also used to produce clotting factors for treating haemophilia and in the development of gene therapy. The objective of the book is to introduce the basic principle and techniques used to make Recombinant DNA.

Print ISBN: 978-1-68251-650-8 | \$155 | 2020 | Hardcover

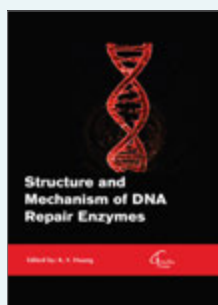


Bioinformatics and Genomics: Concepts and Protocols

Editor: K R Gabriel

Genomic technologies are generating an extraordinary amount of information, unprecedented in the history of biology. Bioinformatics addresses the specific needs in data acquisition, storage, analysis and integration that research in genomics generates. Bioinformatics has become an important part of many areas of biology. In the field of genetics, it aids in sequencing and annotating genomes and their observed mutations. This book provides an overview of the rapidly evolving field of genomics with coverage of nucleic acid technologies, proteomics and bioinformatics.

Print ISBN: 978-1-68251-651-5 | \$155 | 2020 | Hardcover



Structure and Mechanism of DNA Repair Enzymes

Editor: K. Y. Huang

DNA repair enzymes are enzymes that recognize and correct physical damage in DNA, caused by exposure to radiation, UV light or reactive oxygen species. DNA Damage Repair Enzymes are necessary for the repair of errors introduced during DNA replication or recombination or as a result of treatment with exogenous genotoxic agents. These enzymes can be used in vitro to detect specific forms of DNA damage or for repair assays. Importantly, our understanding of the fundamental science behind DNA repair and the mechanisms of the enzymes involved has led to a number of therapeutic strategies to treat these diseases. This book provides selected topics in DNA repair, a field that is ever-expanding in complexity and biologic significance.

Print ISBN: 978-1-68251-683-6 | \$155 | 2020 | Hardcover



Analytical Biotechnology: Instrumental Methods

Editor: Mitava Deemter

In fact, we have witnessed the birth of new analytical methods that play an essential role in biotechnology. Knowing the appropriate applications of various analytical techniques used in biotechnology, makes the experiment more easier and let the researcher obtain a better result which also reduces the time period of experiment by eliminating the trial and error methods. Along with the knowledge of application of the analytical technique, the researcher also should have the knowledge of the sampling techniques for the analytical instruments as it is one of the deciding factors to choose a specific technique for the analysis. This book focuses on enhancement technology development by promoting cross-disciplinary approaches directed toward instrumental methods in biotechnology.

Print ISBN: 978-1-68251-685-0 | \$155 | 2020 | Hardcover



Foundations in Discrete Mathematics, Algorithms and Polynomial Approximations

Editor: Martina Kim

It is often said that mathematics is useful in solving a very wide variety of practical problems. As time goes on, more and more mathematics that is done, both in academia and in industry, is discrete. Today discrete mathematics has become a significant area of study in different domains. It provides excellent modelling tools for analyzing real-world phenomena that varies in one state or another and is a vital tool used in a wide range of applications, from computers to telephone call routing and from personnel assignments to genetics. This book will provide significant research in many areas of discrete mathematics and combinatorics. It will discuss the importance of discrete mathematics in computer science. Furthermore, it will attempt to provide an understanding of important related mathematical concepts and demonstrate with evidence based research why these concepts are essential in computer science. This book shows how to use mathematical models and methods to analyze problems that arise in computer science.

Print ISBN: 978-1-68251-753-6 | \$160 | 2021 | Hardcover

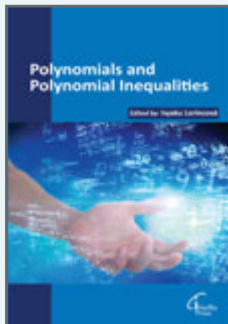


Algorithms: Design Techniques and Analysis

Editor: Silvia Salisu

In the field of computing, an algorithm is a set of instructions applied to solve a particular problem. Since algorithm design techniques are growing at a fast pace, it has become important for IT professionals to upgrade their knowledge in order to meet the growing industry demand. The current book covers the study of algorithm design techniques by presenting most of the useful algorithm design techniques and illustrating them through numerous examples. The book also examines different algorithm design techniques and their applications. It covers on development of theories and methods for computer and information sciences, the design, implementation, and analysis of algorithms and software tools for mathematical computation and reasoning, and the integration of mathematics and computer science for scientific and engineering applications.

Print ISBN: 978-1-68251-754-3 | \$160 | 2021 | Hardcover



Polynomials and Polynomial Inequalities

Editor: Isyaku Lorincová

Polynomials are an important part of the "language" of mathematics and algebra. They are used in nearly every field of mathematics to express numbers as a result of mathematical operations. This book contains comprehensive information related to polynomials in mathematics, science, and industry. It also aims to review the recent developments in applications of orthogonal polynomials and special functions as numerical and analytical methods. The book deals in areas ranging from mathematical modeling, high-order numerical methods for differential, integral and integro-differential equations, stochastic differential equations, statistics, and information and communication sciences and beyond. This book will help understand the state-of-art high-order methods for models of complex systems and presents in-depth insights and discussion in a wide research community of related topics.

Print ISBN: 978-1-68251-755-0 | \$160 | 2021 | Hardcover

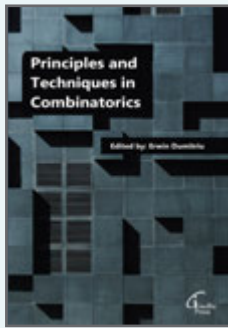


Further Developments in Fractals and Related Fields

Editor: Dan Cornelis

Nonlinear dynamics manifests itself in a number of phenomena in both laboratory and day to day dealings. However, little attention was being paid to this dynamically rich field. With the advent of high speed computers with visual graphics, the field has proliferated over past few years. One of the most rewarding realization from nonlinear dynamics is the universally acclaimed field of chaos. Chaos has brought in order and has broken the disciplinary boundaries that existed until recently. The current book presents review and research results on a wide variety of applications in different branches of sciences arising from the study of dynamical systems. The book is focused on those strictly deterministic dynamic Systems that present the peculiarity of being sensitive to initial conditions, and, when they have a propriety of recurrence, cannot be predicted over the long term. There is a need for amalgamation among theories, intuitions, and perceptions of the subject and it is also necessary for systematic, sequential, and logical developments in the subject, which helps students at the undergraduate and postgraduate levels.

Print ISBN: 978-1-68251-756-7 | \$160 | 2021 | Hardcover

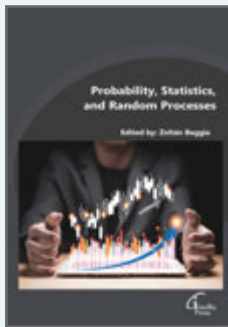


Principles And Techniques In Combinatorics

Editor: Erwin Dumitriu

The development of computer technology in the second half of the 20th century is a main cause of the interest in finite mathematics in general and combinatorial theory in particular. In pure mathematics, combinatorial methods have been used with advantage in such diverse fields as probability, algebra, number theory, set theory, and mathematical logic. In contrast to the wide range of combinatorial problems and the multiplicity of methods that have been devised to deal with them stands the lack of a central unifying theory. This book gives an overview of recent trends and results in a large part of combinatorics and related topics. The book presents state of the art topics, written by leading experts in combinatorics, features in-depth surveys of current research areas in combinatorics in the broad sense, ranging from applied graph theory to mathematical programming.

Print ISBN: 978-1-68251-757-4 | \$160 | 2021 | Hardcover

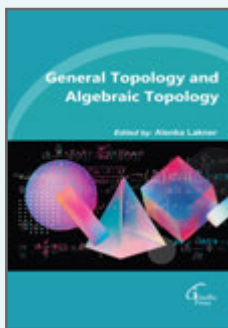


Probability, Statistics, and Random Processes

Editor: Zoltán Baggia

Probability is the most important thing that we calculate subconsciously on almost all occasions. We hear about probabilities in many every-day situations ranging from weather forecasts to the lottery. The book compiles state of the art information on the theory and application of probability and statistics that consider new methods and approaches to their implementation, or report significant results for the field. It presents contributions to a wide range of areas including contributions which enhance the understanding of statistical theory, which may open up important avenues for applied analysis in the future. Research in probability education is now well established and tries to improve the challenges posed in the education of students and teachers. The book covers in modern probability theory, its relations to analysis, geometry and other areas in mathematics, and its various fields of application.

Print ISBN: 978-1-68251-758-1 | \$160 | 2021 | Hardcover



General Topology and Algebraic Topology

Editor: Alenka Lakner

Topology refers to the relationship between spatial features or objects. It studies properties of spaces that are invariant under any continuous deformation. Algebraic topology is the study of intrinsic qualitative aspects of spatial objects. This book aims at presenting cutting-edge research and developments in topological methods in varied problems by bringing together worldwide contributions on the scientific foundations and the applications of topological methods. It includes the algebraic, general, geometric, and set-theoretic facets of topology as well as areas of interaction between topology and other mathematical disciplines. Presenting a unique and modern treatment of topology employing a cross-disciplinary approach, this book does an excellent job of showing how topology pervades the other mathematical disciplines.

Print ISBN: 978-1-68251-759-8 | \$160 | 2021 | Hardcover

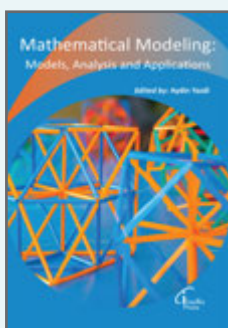


Mathematics for Business, Science, and Technology

Editor: Amelia Manuti

Mathematics is everywhere: weather forecasting, automatic teller machines, secure websites, electronic games, statistical data analysis, opinion polls and many more. The current book presents comprehensive coverage on mathematical concepts and methods used in the analysis of business management, finance and economics. The book covers descriptive and exploratory analysis to discuss meaning, nature, features and implications of the importance of business mathematics to business studies. The book is designed to meet the needs of a typical large audience in which there are students who have a wide range of mathematical skills and who also require a range of mathematical techniques for the different majors they are involved.

Print ISBN: 978-1-68251-760-4 | \$160 | 2021 | Hardcover

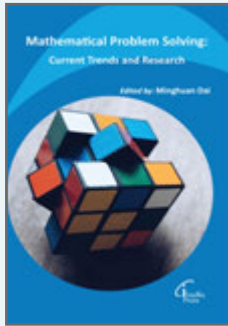


Mathematical Modeling: Models, Analysis and Applications

Editor: Aydin Yazdi

Mathematics reveals hidden patterns that help us to understand the world around us. Hence the objective importance of mathematical analysis as a means of studying functions. Mathematical analysis, in the broad sense of the term, includes a very large part of mathematics. This book is a comprehensive introduction to the key theoretical perspectives, issues of empirical interest, and challenges facing experts and practitioners that have shaped this thrilling discipline. Topics covered in this book include real analysis, complex analysis, inequalities, numerical analysis, and numerical analysis in abstract spaces, differential equations, difference equations, partial differential equations, optimization, multivariate analysis and all the other fields of their applications. The book will be of great interest to researchers and professionals whose work involves the use of mathematical analysis.

Print ISBN: 978-1-68251-761-1 | \$160 | 2021 | Hardcover

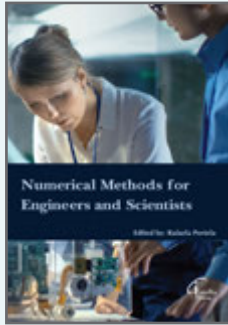


Mathematical Problem Solving: Current Trends and Research

Editor: Minghuan Dai

Problem-solving is the primary purpose of the mathematics curriculum. Problem-solving abilities influenced beliefs and metacognition. Mathematical problem solving has long been seen as an important aspect of mathematics, the teaching of mathematics, and the learning of mathematics. The current book seeks to broaden the scope of research on mathematical problem solving in different educational environments. It brings together contributions not only from leading researchers, but also highlights collaborations with younger researchers to broadly explore mathematical problem-solving across many fields: mathematics education, psychology of education, technology education, mathematics popularization, and more. This book will serve as a valuable resource for researchers and teachers interested in mathematical problem solving, as well as researchers and teachers interested in technology, creativity, and affect.

Print ISBN: 978-1-68251-762-8 | \$160 | 2021 | Hardcover



Numerical Methods for Engineers and Scientists

Editor: Rafaela Portela

Numerical methods provide a way to solve problems quickly and easily compared to analytic solutions. Such problems arise throughout the natural sciences, social sciences, engineering, medicine, and business. Applied problems involve more applied engineering and scientific applications which require numerical solutions. The book contains research articles on the development and analysis of numerical methods. It highlights on the theory, development or use of practical algorithms and interactions between these aspects. It presents comprehensive information on convergence of algorithms, their accuracy, their stability, and their computational complexity. The book will serve to the broad spectrum of researchers in scientific computing, and academicians dealing with all fields of numerical analysis and mathematical modeling.

Print ISBN: 978-1-68251-797-0 | \$160 | 2021 | Hardcover



Complex Variables and Applications

Editor: Carlos Pereira

Complex variables open everything what is hidden in the real calculus. Complex variable techniques have been used in a wide variety of areas of engineering. This has been particularly true in areas such as electromagnetic field theory, fluid dynamics, aerodynamics and elasticity. With the rapid developments in computer technology and the consequential use of sophisticated algorithms for analysis and design in engineering there has been, in recent years, less emphasis on the use of complex variable techniques and a shift towards numerical techniques applied directly to the underlying full partial differential equations model of the situation. The book focuses on functions of complex variables and their applications to other mathematics branches, sciences, and engineering. The following topics will be examined: the complex plane, analytic functions, integration and Cauchy's Theorem, sequences and series, residue calculus, Fourier and Laplace transforms, and applications.

Print ISBN: 978-1-68251-798-7 | \$160 | 2021 | Hardcover

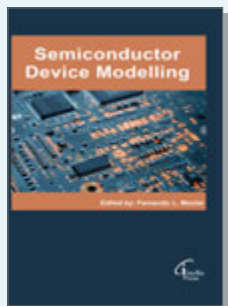


Combinatorics, Graph Theory, and Applications

Editor: Mateus Heumann

In recent years, graph theory has become an important mathematical method in a wide range of fields, ranging from operational research and chemistry to genetics and linguistics, from electrical engineering and geography to sociology and architecture. At the same time, it also appeared as a worthy mathematical discipline in its own right. Combinatorics proved to be the branch of mathematics that best suits the needs of computer science. This book is intended to cover advances and research concerning all aspects of combinatorial mathematics, especially graph theory and discrete geometry. Covering about developments within mathematics which led to the recent growth of combinatorics, the book also mentions the discovery of deep connections with mainstream areas of mathematics, such as algebra, geometry, topology, and probability theory, to mention just a few. The book aims to gain comprehensive understanding of advanced graph theory and its potential applications.

Print ISBN: 978-1-68251-799-4 | \$160 | 2021 | Hardcover

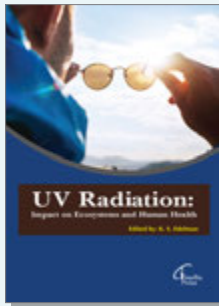


Semiconductor Device Modelling

Editor: Fernando L. Mosler

Semiconductors are especially important as varying conditions like temperature and impurity content can easily change their conductivity. This technology has completely changed the world we live in, semiconductors has been widely used in the electronics, integrated circuits and computer industry because it can produce better, faster, cheaper electronic devices. Researchers are devoting their time and efforts on the development of efficient and high-speed device models as the requirement for faster, smaller circuits and systems are becoming more and more stringent. The current book presents an overview of semiconductor device modelling is presented which describes the principal methods of representing and analyzing modern solid-state devices. This book covers different methods of semiconductor device modeling for electronic circuit simulation. The book deals with classical, semi-classical, particle and quantum transport methodologies and compares the relative merits of each approach.

Print ISBN: 978-1-68251-703-1 | \$160 | 2021 | Hardcover



UV Radiation: Impact on Ecosystems and Human Health

Editor: K. S. Edelman

UV is one of the non-ionizing radiations in the electromagnetic spectrum and lies within the range of wavelengths 100 nm to 400 nm. Ultraviolet light is closely associated with human health. The book deals with the broad range of topics including physical and meteorological fundamental studies, historical and anthropological considerations, the latest developments in UV research, as well as the interactions between UV radiation and global change, measurements, modeling and effects on ecosystems and living organisms, human health, behavioral aspects, and policy consequences. It is hoped that the information presented in this book will give great benefit and will stimulate both novice and expert researchers in the field. The book will appeal to Clinicians, medical general practitioners, technicians and staff working in UV related industries.

Print ISBN: 978-1-68251-800-7 | \$160 | 2021 | Hardcover

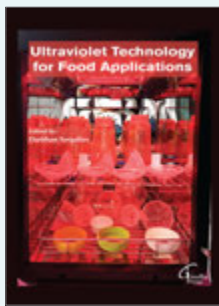


Ultraviolet Technology for Water Treatment

Editor: Saskia Alegri

There is a rapidly growing interest in using UV light in water sanitation due to the increased knowledge of the potential health and environmental impacts of disinfection byproducts. Ultraviolet Light in Water and Wastewater Sanitation integrates the fundamental physics applicable to water and wastewater sanitation, the engineering aspects, and the practical experience in the field. This book brings together comprehensive information on the presently available UV technologies applicable to water and wastewater treatment. It is intended to investigate the effectiveness of Ultraviolet light for waste water disinfection. This book will serve as a reference guide for those who are dealing with water and wastewater treatment plants; water utility employees, governmental regulators.

Print ISBN: 978-1-68251-801-4 | \$160 | 2021 | Hardcover

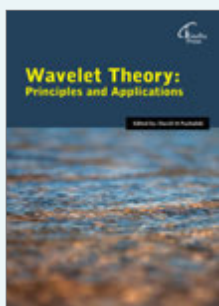


Ultraviolet Technology for Food Applications

Editor: Darkhan Turgaliev

In recent years, use of non-thermal technologies is increasing as an alternative to the thermal processing in food industry. Ultraviolet (UV) light, which is a non-thermal technology, has recently attracted a lot attention to improvement of food safety. Ultraviolet light (UV) light holds considerable promise in food processing as an alternative to traditional thermal processing. Its applications include pasteurization of juices, post lethality treatment for meats, treatment of food contact surfaces and to extend the shelf-life of fresh produce. The book emphasizes the need to properly assess the physical and chemical properties in foods that influence the effectiveness of UV treatment and impact inactivation kinetics. It also addresses the effects of UV processing on food quality, before considering the engineering aspects of UV light treatment, such as transport phenomena, process calculations, and continuous flow reactor geometries.

Print ISBN: 978-1-68251-802-1 | \$160 | 2021 | Hardcover

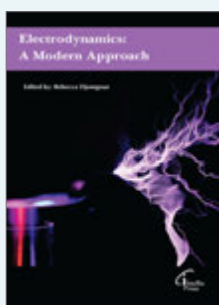


Wavelet Theory: Principles and Applications

Editor: David M Puchalski

In the past decade, wavelet analysis has made rapid progress in both theory and method. Wavelets are mathematical functions which are used as a basis for writing down other complex functions in an easy way. Wavelets now serve as an alternative to classical Fourier methods, Fourier series and integrals. This book is intended to focus on current research on wavelets theory and its applications in different areas such as biomedical analysis, fringe-pattern analysis, image applications, and network data transfer applications, and optical measurement techniques. This book will serve as valuable reference for extending the research fields of differential and integral equations, harmonic analysis, signal and image processing, approximation theory and practical studies of Physics and Engineering.

Print ISBN: 978-1-68251-803-8 | \$160 | 2021 | Hardcover



Electrodynamics: A Modern Approach

Editor: Rebecca Djongoue

Electrodynamics is a foundational theory that is well known to every student of physics and of electrical engineering. In the two hundred years from the mid nineteenth century to the mid twentieth century, physics underwent a remarkable revolution in its mathematics. This book compiles state of the art research and developments on the principles of electrostatics. This book gives a cursory overview of the basic ideas of stochastic electrodynamics, of the successes of the theory, and of its connections to quantum theory. In addition, the book focuses on the nature of the electromagnetic energy radiated over a single period of oscillation by an antenna working in frequency domain under ideal conditions and without losses when the oscillating charge in the antenna is reduced to the elementary charge.

Print ISBN: 978-1-68251-804-5 | \$160 | 2021 | Hardcover

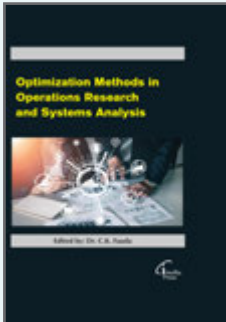


Fundamental of Research Methodology And Statistics

Editor: Nick Monck

Research methodology is used a base to explain statistical reasoning. The role of statistics in research is to function as a tool in designing research, analysing its data and drawing conclusions therefrom. Designing research methods requires knowledge about various methods and understanding data. This book will provide an opportunity for participants to establish or advance their understanding of research through critical exploration of research language, ethics, and approaches. Statistical methods covered include analysis of variance and multiple linear regression.

Print ISBN: 978-1-68251-666-9 | \$160 | 2020 | Hardcover

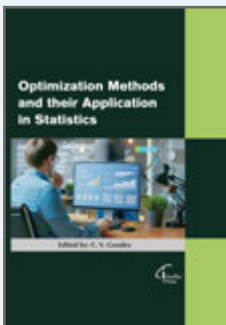


Optimization Methods in Operations Research and Systems Analysis

Editor: Dr. C.K. Fauda

Operation Research incorporates a wide range of mathematical problem-solving techniques and methods, applied in the pursuit of better decision making and efficiency, such as simulation, mathematical optimization and others. Logistics and warehouse optimization is commonly required in most of the industries like automobile, FMCG, container terminals, defence, etc. This comprehensive book provides the students with the basic knowledge of the processes involved in operations research and discusses the techniques of solutions to problems and their applications in daily life.

Print ISBN: 978-1-68251-609-6 | \$160 | 2020 | Hardcover

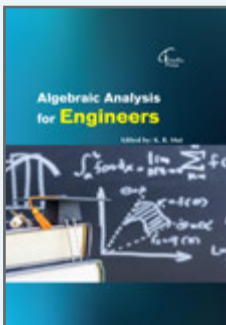


Optimization Methods and their Application in Statistics

Editor: C. V. Goodey

Optimization methods are of great importance in practice, particularly in engineering design, scientific experiments, and business decision making. This book attempts to give a brief introduction to optimization methods and their use in several important areas of statistics. The book deals with variational methods, regression analysis, mathematical programming, and optimum seeking methods, stochastic control, optimum design of experiments, optimum spacings, and order statistics. It is hoped that the book will be of helpful to students on applied statistics courses and to researchers needing to use optimization techniques in a statistical context.

Print ISBN: 978-1-68251-610-2 | \$160 | 2020 | Hardcover

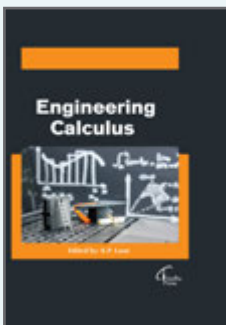


Algebraic Analysis for Engineers

Editor: K. R. Mui

The term “algebraic analysis” has had, and continues to have, various meanings reflecting several different areas of study and approaches for over 200 years. The calculus today is the core of analysis, a subject whose basic concepts are domain, functional mapping, limit, continuity, differentiability and so on. At the elementary level the calculus is developed for real values of the variable. The derivative of a function is defined at each number of the domain by a limit process in terms of the values of the function in a neighborhood about the number. This book examines some of the developments in arithmetic and algebraic symbolism which made possible noteworthy brevity in exposition and consequently greater ease of learning.

Print ISBN: 978-1-68251-616-4 | \$160 | 2020 | Hardcover

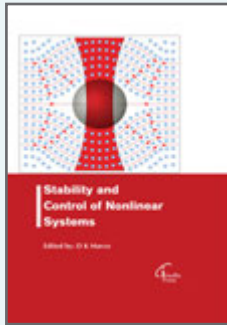


Engineering Calculus

Editor: K.P. Luan

Calculus is used to improve the architecture not only of buildings but also of important infrastructures such as bridges. It is required by architects and engineers to determine the size and shape of the curves. Without the use of calculus roads, bridges, tunnels would not be safe as they are today. This book intends to review numerous methods and applications of integral calculus. With its easy-to-follow style and accessible explanations, the book sets a solid foundation to specific calculus methods, demonstrating the relations between differential calculus theory and its solicitations.

Print ISBN: 978-1-68251-617-1 | \$160 | 2020 | Hardcover

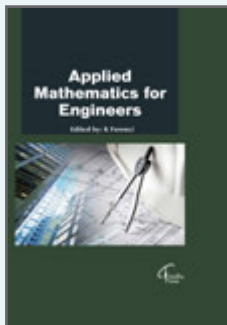


Stability and Control of Nonlinear Systems

Editor: D K Marzo

In the past few years, nonlinear control systems have experienced a growing popularity and these developments are motivated by extensive applications, in particular, to such area as mechanical systems, aircraft flight control systems, and electrical systems. A number of new ideas, approaches, and results have appeared in the field of nonlinear control systems. For all control systems, stability is the primary requirement. Thus, technological advances have bolstered the impact of analytic advances and produced a tremendous variety of new problems and applications that are nonlinear in an essential way. The purpose of this book is to give an explanation of recently adaptive PI/PD/PID control design for nonlinear systems.

Print ISBN: 978-1-68251-667-6 | \$160 | 2020 | Hardcover



Applied Mathematics for Engineers

Editor: K Ferenc

Applied mathematics deals with mathematical concepts and techniques used in various fields of science and engineering. Compared with the pure mathematician, the applied mathematician is more interested in problems coming from other fields. Compared with the engineer and the physical scientist, he is more concerned with the formulation of problems and the nature of solutions. This book is the most authoritative and accessible reference on applied mathematics.

Print ISBN: 978-1-68251-619-5 | \$160 | 2020 | Hardcover

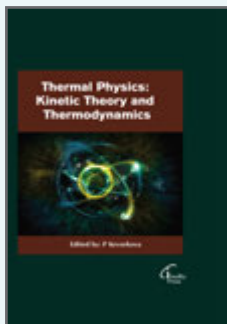


Modern Particle Physics: A Balanced Introduction

Editor: Nikitin L

Particle physicists look for new particles and on finding them categorize them in order to try and find patterns of how fundamental building blocks of the universe interact. It is also called "high energy physics", because many elementary particles do not occur under normal circumstances in nature, but can be created and detected during energetic collisions of other particles, as is done in particle accelerators. A comprehensive, up-to-date reference covering current experimental results and reviews, valuable to students and practitioners

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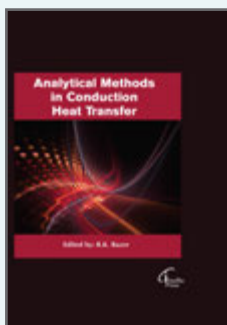


Thermal Physics: Kinetic Theory and Thermodynamics

Editor: P Kevorkova

It is very important to know that the heat is very important in our daily life in warming the house, cooking, heating the water and drying the washed clothes. Heat energy, or thermal energy, is the energy of a substance or system in terms of the motion or vibration of its molecules. The faster the molecules in a substance move the more heat energy they have. Temperature is the average kinetic energy of the molecules in a substance. This book offers unified treatment of classical mechanics, electricity, magnetism, and quantum mechanics.

Print ISBN: 978-1-68251-632-4 | \$160 | 2020 | Hardcover



Analytical Methods in Conduction Heat Transfer

Editor: R.K. Bazer

Heat is an important concept for researchers, scientists and engineers. Conduction heat transfer is the transfer of heat by means of molecular excitement within a material without bulk motion of the matter. Conduction heat transfer in gases and liquids is due to the collisions and diffusion of the molecules during their random motion. This book is designed to equip readers with the tools to solve a variety of engineering applications containing conduction heat transfer.

Print ISBN: 978-1-68251-633-1 | \$160 | 2020 | Hardcover



Principles of Convective Heat Transfer

Editor: Lafond, C.

Convection is a major mode of heat transfer when fluid is attached with the source. Convective heat transfer has its wide horizon spreading from flow over a flat plate under constant heat flux or constant temperature boundary conditions to thermally developing or developed flow inside a duct. The book presents the comprehensive treatment of forced and natural convection heat transfer processes emphasizing the underlying physical phenomena.

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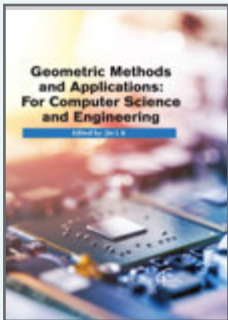


Principles of Radiative Heat Transfer

Editor: K L Gandolfi

Radiation heat transfer is studied by considering both the general characteristics of radiation as well as the properties of radiating surfaces and radiation heat transfer between surfaces. Unlike conduction and convection, heat transfer by thermal radiation does not necessarily need a material medium for the energy transfer. In the case of thermal radiation from a solid surface, the medium through which the radiation passes could be vacuum, gas, or liquid. This book investigates the principles of thermal radiation and their applications to engineering heat transfer problems.

Print ISBN: 978-1-68251-635-5 | \$160 | 2020 | Hardcover



Geometric Methods and Applications: For Computer Science and Engineering

Editor: Jin L K

Geometric modelling is the process of capturing the properties of an object or a system using mathematical formulae. Computer geometric modelling is the field that discusses the mathematical methods behind the modelling of realistic objects for computer graphics and computer aided design. An introduction to fundamental geometric concepts and tools needed for solving problems of a geometric nature using a computer.

Print ISBN: 978-1-68251-618-8 | \$160 | 2020 | Hardcover

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