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## KEY=C - LEILA DIAMOND

## INDIAN BOOKS IN PRINT

## HIGHWAY ENGINEERING

## EXTRACELLULAR SUGAR-BASED BIOPOLYMERS MATRICES

*Springer* The extracellular matrix (ECM) is an acellular three-dimensional network composed of proteins, glycoproteins, proteoglycans and exopolysaccharides. It primarily serves as a structural component in the tissues and organs of plants and animals, or forms biofilms in which bacterial cells are embedded. ECMs are highly dynamic structures that undergo continuous remodeling, and disruptions are frequently the result of pathological processes associated with severe diseases such as arteriosclerosis, neurodegenerative illness or cancer. In turn, bacterial biofilms are a source of concern for human health, as they are associated with resistance to antibiotics. Although exopolysaccharides are crucial for ECM formation and function, they have received considerably little attention to date. The respective chapters of this book comprehensively address such issues, and provide reviews on the structural, biochemical, molecular and biophysical properties of exopolysaccharides. These components are abundantly produced by virtually all taxa including bacteria, algae, plants, fungi, invertebrates and vertebrates. They include long unbranched homopolymers (cellulose, chitin/chitosan), linear copolymers (alginate, agarose), peptidoglycans such as murein, heteropolymers like a variety of glycosaminoglycans (hyaluronan, dermatan, keratin, heparin, PeI), and branched heteropolymers such as pectin and hemicellulose. A separate chapter is dedicated to modern industrial and biomedical applications of exopolysaccharides and polysaccharide-based biocomposites. Their unique chemical, physical and mechanical properties have attracted considerable interest, inspired basic and applied research, and have already been harnessed to form structural biocomposite hybrids for tailor-made applications in regenerative medicine, bioengineering and biosensor design. Given its scope, this book provides a substantial source of basic and applied information for a wide range of scientists, as well as valuable textbook for graduate and advanced undergraduate students.

## INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATIONS

## PROCEEDINGS OF ICICC 2020, VOLUME 2

*Springer Nature* This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21-23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

## REDUCING GREENHOUSE GAS EMISSIONS AND IMPROVING AIR QUALITY

## TWO INTERRELATED GLOBAL CHALLENGES

*CRC Press* The world's atmosphere is a common resource. Air quality, along with energy, transportation, and climate change have significant impacts on our lives and this book helps readers understand the changes happening at the nexus of these areas, as they relate to reducing greenhouse gas emissions and improving air quality. Discussing the transitions to electric vehicles, solar and wind energy for electricity generation, battery developments, smart grids and electric power management, and progress in the electrification of agricultural technology, it also provides the latest information in the context of the United Nations sustainable development goals and the Paris Agreement on Climate Change. Features: Includes content on how to improve urban air quality in large cities and urban environments. Effectively addresses the nexus of energy, transportation, air quality, climate change and health. Discusses innovative concepts at the nexus of renewable energy, smart grid, electric vehicles, and electric power management. Describes recent progress in meeting the goals of the Paris Agreement on Climate Change and the benefits of reducing greenhouse gas emissions. Written for a wide audience by world experts in sustainability. *Reducing Greenhouse Gas Emission and Improving Air Quality: Two Interrelated Global Challenges*, is an invaluable book for professionals and academics at the center of changes relating to solar and wind energy, electric vehicles, and charging infrastructure, including government officials, community leaders, researchers, students, and interested citizens. It is also an excellent text for classes that address sustainability, particularly for those focused on transportation and energy.

## NANOALLOYS

## FROM FUNDAMENTALS TO EMERGENT APPLICATIONS

*Elsevier* Nanoalloys, Second Edition, provides a self-contained reference on the physics and chemistry of nanoscale alloys, dealing with all important aspects that range from the theoretical concepts and the practical synthesis methods to the characterization tools. The book also covers modern applications of nanoalloys in materials science, catalysis or nanomedicine and discusses their possible toxicity. Covers fundamentals and applicative aspects of nanoalloys in a balanced presentation, including theoretical and experimental perspectives. Describes physical and chemical approaches, synthesis and characterization tools. Illustrates the potential benefit of alloying on various applications ranging from materials science to energy production and nanomedicine. Updates and adds topics not fully developed at the time of the 1st edition, such as toxicity and energy applications.

## SMART GRIDS AND THEIR COMMUNICATION SYSTEMS

*Springer* The book presents a broad overview of emerging smart grid technologies and communication systems, offering a helpful guide for future research in the field of electrical engineering and communication engineering. It explores recent advances in several computing technologies and their performance evaluation, and addresses a wide range of topics, such as the essentials of smart grids for fifth generation (5G) communication systems. It also elaborates the role of emerging communication systems such as 5G, internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to practitioners and researchers in the field of smart grid and communication infrastructures alike.

## BIOFUELS IN BRAZIL

## FUNDAMENTAL ASPECTS, RECENT DEVELOPMENTS, AND FUTURE PERSPECTIVES

*Springer Science & Business Media* This book discusses the commercialization of biofuels and the Brazilian government policies for the promotion of renewable energy program in Brazil, which could be a learning module for several countries for implementing biofuels policy to improve their socioeconomic status and make them energy independent. Researchers in academia and industries, policy makers, and economic analysts will be assisted by important source of information in their ongoing research and future perspectives. This book will benefit graduate and postgraduate students of chemical and biochemical engineering, forestry, microbiology, biochemistry, biotechnology, applied chemistry, environmental science, sustainable energy, and biotech business disciplines by signifying the applied aspects of bioenergy production from various natural sources and their implications. Graduate and postgraduate students as well as postdoctoral researchers will find clear concepts of feedstock analysis, feedstock degradation, microbial fermentation, genetic engineering, renewable energy generation and storage, climate changes, and techno-economic analysis of biofuels production technologies.

## ELECTRICAL MACHINES-I

*KHANNA PUBLISHING HOUSE* This book is written so that it serves as a text book for B.E./B.Tech degree students in general and for the institutions where AICTE model curriculum has been adopted. TOPICS COVERED IN THIS BOOK:- Magnetic field and Magnetic circuit Electromagnetic force and torque D.C. Machines D.C. Machines-Motoring and Generation SALIENT FEATURES:- Self-contained, self-explanatory and simple to follow text. Numerous worked out examples. Well Explained theory parts with illustrations. Exercises, objective type question with answers at the end of each chapter.

## BIBLIOGRAPHY OF AGRICULTURE

## INDIAN SCIENCE ABSTRACTS

## TRAFFIC AND HIGHWAY ENGINEERING

## NON-SURGICAL TREATMENT OF KERATINOCYTE SKIN CANCER

*Springer Science & Business Media* Books mark the progress of Man since they were invented. Through them we are able to gain insight into the minds of our predecessors better than through any other

medium. They describe how the delicate interplay between practice and ideal, which is better known as evolution, has brought forward the societies in which we now live. A book marks the synthesis of knowledge in a different way from individual papers. A certain maturity and volume of understanding and knowledge is necessary before the material is suitable for a book. The timing of the cognitive and analytical synthesis represented by a book is therefore crucial; too soon and it is lost in speculation, too late and it is old news. Non-melanoma skin cancer is common; it causes morbidity, it causes a burden on society, and treatment has been traditionally almost exclusively surgical. Decades of medical science have however now brought forward a number of techniques which may help both the diagnosis and treatment of skin cancer without physically removing it, either alone or in combination in treatment programs tailored to the individual patients.

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#### **BIOMARKERS OF HUMAN AGING**

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*Springer Nature* This book collects and reviews, for the first time, a wide range of advances in the area of human aging biomarkers. This accumulated data allows researchers to assess the rate of aging processes in various organs and systems, and to individually monitor the effectiveness of therapies intended to slow aging. In an introductory chapter, the editor defines biomarkers of aging as molecular, cellular and physiological parameters that demonstrate reproducible changes - quantitative or qualitative - with age. The introduction recounts a study which aimed to create a universal model of biological age, whose most predictive parameters were albumin and alkaline phosphatase (indication liver function), glucose (metabolic syndrome), erythrocytes (respiratory function) and urea (renal function). The book goes on to describe DNA methylation, known as the "epigenetic clock," as currently the most comprehensive predictor of total mortality. It is also useful for predicting mortality from cancer and cardiovascular diseases, and for analyzing the effects of lifestyle factors including diet, exercise, and education. Individual contributions draw additional insight from research on genetics and epigenetic aging markers, and immunosenescence and inflammaging markers. A concluding chapter outlines the challenge of integrating of biological and clinical markers of aging. Biomarkers of Human Aging is written for professionals and practitioners engaged in the study of aging, and will be useful to both advanced students and researchers.

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#### **SOFT COMPUTING IN INTERDISCIPLINARY SCIENCES**

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*Springer* This book meets the present and future needs for the interaction between various science and technology/engineering areas on the one hand and different branches of soft computing on the other. Soft computing is the recent development about the computing methods which include fuzzy set theory/logic, evolutionary computation (EC), probabilistic reasoning, artificial neural networks, machine learning, expert systems, etc. Soft computing refers to a partnership of computational techniques in computer science, artificial intelligence, machine learning, and some other engineering disciplines, which attempt to study, model, and analyze complex problems from different interdisciplinary problems. This, as opposed to traditional computing, deals with approximate models and gives solutions to complex real-life problems. Unlike hard computing, soft computing is tolerant of imprecision, uncertainty, partial truth, and approximations. Interdisciplinary sciences include various challenging problems of science and engineering. Recent developments in soft computing are the bridge to handle different interdisciplinary science and engineering problems. In recent years, the correspondingly increased dialog between these disciplines has led to this new book. This is done, firstly, by encouraging the ways that soft computing may be applied in traditional areas, as well as point towards new and innovative areas of applications and secondly, by encouraging other scientific disciplines to engage in a dialog with the above computation algorithms outlining their problems to both access new methods as well as to suggest innovative developments within itself.

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#### **BIBLIOGRAPHY OF AGRICULTURE**

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#### **OXIDATIVE STRESS IN MICROBIAL DISEASES**

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*Springer Nature* This book discusses recent advances in our understanding of the role of oxidants in microbial pathophysiology, providing valuable insights into the complex role of reactive oxygen species (ROS) in host-microbial interactions. The various chapters take readers through the function of ROS in infections ranging from viral to bacterial, and describe how microorganisms have developed complex strategies to not only avoid contact with phagocyte-derived oxidants, but also protect themselves from injury when oxidants are encountered. Featuring the latest research in the field of microbial diseases, this timely book is a ready reference for scientists looking to develop new anti-microbial drugs.

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#### **NEEM: TODAY AND IN THE NEW MILLENNIUM**

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*Springer Science & Business Media* The chemicals from plant sources, generally termed as phytochemicals, play an important role in acceptance or rejection of the plant by the pests as they could be distasteful or toxic on one hand or on the other hand specialist herbivores have the capability to feed on many such chemicals, as they are able to process these natural products in a manner that is beneficial to them. In the wake of increasing environmental degradation due to burgeoning synthetic chemicals, there has been a process going on to rediscover the usefulness of plants and herbs and a continued effort for more than 2 decades has been to study the green products for cures for several ailments and pest management. In fact, according to Indian Medicinal Plants: A Sectoral Study, the global trade for medicinal plants amounts to about US \$ 60 billion and the world demand continues to grow at the rate of 7 per cent per annum. Although many such plants are known in literature, neem has been one of trees with manifold virtues. Indian neem tree, *Azadirachta indica* A. Juss, which is a large evergreen tree, is an outstanding example among plants that has been subject matter of numerous scientific studies concerning its utilization in medicine, industry and agriculture. So far neem preparations have been evaluated against more than 500 species of insects and more than 400 hundred are reported to be susceptible at different concentrations.

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#### **STROKE NURSING**

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*John Wiley & Sons* Stroke Nursing is the leading guide for optimal stroke care, facilitating the provision of evidence-based practice across the stroke journey, and covering the sixteen elements of care outlined in the UK's Stroke-Specific Education Framework (SSEF). Drawing from years of clinical and research experience, the authors provide practical guidance on the essential areas of stroke nursing, including stroke classification, stabilisation, thrombolysis and thrombectomy, rehabilitation and recovery, nutrition and oral care, palliative and long-term care, physical impairment management, and more. Now in its second edition, this indispensable guide helps practitioners expand their knowledge, skills and competence in all areas of stroke nursing services. Adopts a practical and evidence-based approach to stroke management, exploring UK and international perspectives Authored by expert clinicians and leaders in the field of nursing practice, research and education Includes updated case studies and practice examples, expanded coverage of clinical application in practice, and new discussions of the knowledge and skills required by nurses Stroke Nursing is essential reading for students of nursing and neuroscience, and is the definitive reference for practicing nurses and healthcare professionals caring for stroke patients.

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#### **SPARK ABLATION**

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#### **BUILDING BLOCKS FOR NANOTECHNOLOGY**

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*CRC Press* In many fields, the special properties of nanoparticles, which come into play especially for sizes The authors of this book all have many years of experience in spark ablation and its applications. The introductory chapters give an overview of the technological fields that can exploit these size effects, and explain the process of spark ablation in the gas phase, as well as principles of immobilizing the particles to create novel products and materials. Fundamentals of the spark ablation process are then treated, as well as the characteristics of the particles formed. The rest of the book deals with a selection of application fields that profit from the spark ablation source from the perspective of research.

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#### **THE BIOLOGY AND CULTIVATION OF EDIBLE MUSHROOMS**

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*Academic Press* The Biology and Cultivation of Edible Mushrooms emphasizes the biological and cultivation aspects of edible mushrooms. This book refers to edible mushrooms as epigeous and hypogeous fruiting bodies of macroscopic fungi that are commercially cultivated or grown in half-culture processes or potentially implanted under controlled conditions. The topics discussed include the morphology and classification of edible mushrooms; cryogenic freezing of mushroom spawn; spawning and mycelium growth; and cultivation of *Pleurotus*. The geographic distribution of truffles; potential cultivation of various edible fungi; and economics of cultivated mushrooms are also elaborated. This publication is intended for experienced mushroom specialists, seasoned commercial growers, and biology students who are interested in edible mushrooms.

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#### **GEOTITLES**

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#### **GASTROINTESTINAL PHYSIOLOGY**

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#### **DEVELOPMENT, PRINCIPLES AND MECHANISMS OF REGULATION**

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*Springer* This book offers one of the most comprehensive reviews in the field of gastrointestinal (GI) physiology, guiding readers on a journey through the complete digestive tract, while also highlighting related organs and glandular systems. It is not solely limited to organ system physiology, and related disciplines like anatomy and histology, but also examines the molecular and cellular processes that keep the digestive system running. As such, the book provides extensive information on the molecular, cellular, tissue, organ, and system levels of functions in the GI system. Chapters on the roles of the gut as an endocrine, exocrine and neural organ, as well as its microbiome functions, broaden readers' understanding of the multi-organ networks in the human body. To help illustrate the interconnections between the physiological concepts, principles and clinical presentations, it outlines clinical examples such as pathologies that link basic science with clinical practice in special "clinical correlates" sections. Covering both traditional and contemporary topics, it is a valuable resource for biomedical students, as well as healthcare and scientific professionals.

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#### **TARGETED INTRACELLULAR DRUG DELIVERY BY RECEPTOR MEDIATED ENDOCYTOSIS**

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*Springer Nature* This book elaborates on drug delivery targeting via intracellular delivery, specifically through the Receptor Mediated Endocytosis (RME) approach, due to the involvement of cellular receptors in various grave diseases. Targeted delivery relies on two basic approaches, passive and active targeting. While passive targeting approaches have shown great promise, the improved selectivity achieved with active targeting approaches has resulted in significantly higher efficacy. Interestingly there are numerous strategies for active targeting, many of which are already highlighted in Targeted Drug Delivery: Concepts and Applications. Nevertheless an exciting and practical strategy for active targeting, which could enable high intracellular delivery, is through exploitation of RME. Cells in the body express receptors to enable various physiological and biochemical processes. As a result, many of these receptors are overexpressed in pathological conditions, or newer receptors expressed due to defective cellular functioning. RME is based on exploitation of such receptors to achieve intracellular delivery. While targeted delivery can have manifold applications, in this book we focus on two major and challenging therapeutic areas; i) Cancer and ii) Infectious Diseases. Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis discusses the major receptors that are useful for targeted delivery for these afflictions. A major section of this book is dedicated to details regarding their occurrence and location, the recognition domain of the receptor, structure activity relationship of substrate /ligand for selective binding, ligands explored, antagonists for ligand binding and relevance of these aspects for therapy of cancer and infectious diseases. These facets are elucidated with the help of

specific examples from academic research and also emphasize commercial products, wherever relevant. In vitro cellular models relied on for assessing receptor mediated cellular targeting and in vivo models depicting clinical efficacy are focused on in a separate section. Finally, we briefly discuss the regulatory and toxicity issues that may be associated specifically with the RME approach of intracellular drug delivery.

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## STEEL STRUCTURES

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### DESIGN AND PRACTICE

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Oxford University Press, USA *Design of Steel Structures* is designed to meet the requirements of undergraduate students of civil and structural engineering. This book will also prove useful for postgraduate students and serve as an invaluable reference for practicing engineers unfamiliar with the limit state design of steel structures. The book provides an extensive coverage of the design of steel structures in accordance with the latest code of practice for general construction in steel (IS 800 : 2007). The book is based on the modern limit state approach to design and covers topics such as properties of steel, types of steel structures, important areas of structural steel technology, bolted connections, welded connections, design of trusses, design of plate girders, and design of beam columns. Each chapter features solved examples, review questions, and practice problems as well as ample illustrations to supplement the text.

### 151 ESSAYS

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Arihant Publications India limited 1. Collection of more than 162 Essays covering various topics 2. Focuses on developing the art of writing essays 3. Guide is divided into 2 Parts 4. First Part focuses on how to write an effective, interesting essays with techniques 5. Second Part contains all the Latest and Updated topics from all fields of life 6 All topics have been penned in a clear and easy language 7. Important Quotations are provided to better essay writing Writing an essay is a perfect art blend of intellect and creativity that needs discipline of mind, analytical power, and good vocabulary to express thoughts in an appropriate context. To craft a purposeful essay, one must have thorough knowledge of topics, expressions, grammatical accuracy and coherence of thoughts all together. With the revised edition of "151 Essays" readers are certainly helped in enhancing capabilities to present subject matter in a concise and organized manner. The essays in this book have been classified under different categories, giving views on every genre. Latest topics have also been covered with accurate facts and data wherever required. Use of simple and standard language has been kept in mind so that students with different caliber are benefited. A separate section has been made for 'Important Quotations' so that students can use them in writing essay when they require. This book is highly useful for all kinds of examination from academic to government competition. TOC Contemporary Issues, Social Issues, Political Issues, Economic Issues, Science and Technology, Environmental Issues, Education, Health and Sports, Renowned Personalities, Preverbal and Idiomatic, Miscellaneous Issues, Important Quotations

### SCIENCE CITATION INDEX

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Vols. for 1964- have guides and journal lists.

### NEEM

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### THE DIVINE TREE AZADIRACHTA INDICA

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CRC Press This comprehensive review on neem is an excellent collation of observations and research efforts by botanists, taxonomists and medical practitioners and will be of interest to everyone with an interest involved in medicinal and aromatic plant research.

### CELL REPROGRAMMING FOR IMMUNOTHERAPY

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#### METHODS AND PROTOCOLS

Humana This volume details key protocols for developing strategies in immunotherapy. Chapters guide the readers through protocols related to various DNA, RNA and protein methods to reprogram the immune system, immune cells, analyzing the effect of the reprogrammed cells, and key methods to consider and analyze patients enrolled in clinical trials with novel immunotherapy regimens. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Cell Reprogramming for Immunotherapy: Methods and Protocols* aims to ensure successful results in the further study of this vital field.

### MATRIX METALLOPROTEINASE INHIBITORS IN CANCER THERAPY

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Springer Science & Business Media Cutting-edge investigators review the current status of the entire field, from the biology of MMPs through the current clinical studies. The authors include many leading scientists from pharmaceutical companies who present all the latest concepts and results on the preferred design strategies for MMP inhibitors, their molecular mechanisms, and their substrates. In addition, they fully describe their personal research on specific MMP inhibitors, detailing vanguard design strategies, their in vitro activity, the outcome of animal model studies and, where available, their toxicology, safety, efficacy in human clinical trials. Comprehensive and state-of-the-art, *Matrix Metalloproteinase Inhibitors in Cancer Therapy* offers basic and clinical investigators alike a richly informative summary of all the latest research on these powerful new drugs, and their high promise as emerging cancer therapeutics.

### PREGNANCY AND CONGENITAL HEART DISEASE

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Springer This book describes the risks facing patients with congenital heart disease who wish to become pregnant and the ways in which these patients can best be followed and treated during pregnancy. In addition, the organization of care around the delivery is discussed in detail. The first section provides clear advice on pre-pregnancy risk estimation, counseling of patients, medication use, and inheritance. The specific risks associated with congenital heart defects of differing severity are then explained, with guidance on monitoring and management. The coverage includes simple lesions such as atrial and ventricular septal defects, conditions associated with moderate risk, including tetralogy of Fallot and coarctation, and complex disease such as a Fontan or Mustard repair. The final section is devoted to delivery and considers the mode of delivery, anesthetic use, and postpartum care. Readers will find much information that is underreported in the literature, and the book goes well beyond the European Society of Cardiology guidelines, for example, by considering medical conditions not defined as high risk and addressing the organization of care thoroughly.

### PLANT FOOD BY-PRODUCTS

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#### INDUSTRIAL RELEVANCE FOR FOOD ADDITIVES AND NUTRACEUTICALS

CRC Press This volume takes an eco-friendly approach to examining the advantages of using plant food by-products as food additives and nutraceuticals, turning solid wastes into value-added items. The chapters, written by researchers and professionals working in the plant food industry, look at ways to make effective use of plant by-products by harnessing the power of the antimicrobial and nutraceutical power of plant and herb extracts. The measures and techniques discussed here will also help to improve the economics of processing crops. The chapter authors cover a range of issues, including the economic and environmental benefits of utilizing plant food by-products, extraction technologies, plant tissues as a source of nutraceutical compounds, and more.

### FEATURE PAPER IN ANTIBIOTICS FOR 2019

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There has been much speculation about a possible antibiotic Armageddon; this would be the result of having untreatable post-operative infections, and similarly untreatable complications after chemotherapy. The now famous "O'Neill Report" (<https://amr-review.org/>) suggests that more people could die from resistant bacterial infections by 2050 than from cancer. We are still learning about all the subtle drivers of antibiotic resistance, and realizing that we need a single "whole of health" co-ordinated policy. We ingest what we sometimes feed to animals. There do not seem to be any new classes of antibiotics on our horizon. Perhaps something that has been around "forever" will come to our rescue-bacteriophages! Nevertheless, we have to do things differently, use antibiotics appropriately, for the correct indication, for the correct duration and with the correct dose, and with that, practice good antibiotic stewardship. Whilst by no means comprehensive, this book does cover some of the many topics of antibiotic stewardship. It also addresses some of the older antibiotics, some new combinations, and even some new agents. Last, and by no means least, there are two excellent articles on bacteriophages.

### MECHANICS OF MATERIALS

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Firewall Media

### COMPUTER SCIENCE - CACIC 2020

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#### 26TH ARGENTINE CONGRESS, CACIC 2020, SAN JUSTO, BUENOS AIRES, ARGENTINA, OCTOBER 5-9, 2020, REVISED SELECTED PAPERS

Springer Nature This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science, CACIC 2020, held in San Justo, Buenos Aires, Argentina in October 2020. Due to the COVID-19 pandemic the conference was held in a virtual mode. The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions. They were organized in topical sections named: intelligent agents and systems; distributed and parallel processing; computer technology applied to education; graphic computation, images and visualization; software engineering; databases and data mining; hardware architectures, networks, and operating systems; innovation in software systems; signal processing and real-time systems; innovation in computer science education; computer security; and digital governance and smart cities.

### TROPICAL MUSHROOMS

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#### BIOLOGICAL NATURE AND CULTIVATION METHODS

Chinese University Press

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## **FAMILY BUSINESS AND REGIONAL DEVELOPMENT**

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*Routledge* This book explores the relationship between families, firms, and regions and the extent to which these relationships contribute to regional economic and social development. Although family business participation in economic activities has been a common phenomenon since pre-industrial societies, and its importance has evolved throughout time and across spatial contexts, the book suggests that these factors have often been neglected in family business and regional studies. Taking this research gap into account, the book aims to deepen our understanding of the role family firms play in the regional economy. In particular, it explores two seldom studied questions. Firstly, what role do family firms play in regional development? Secondly, how do different spatial regional contexts shape family firm operations and performance? *Family Business and Regional Development* presents a model of "spatial familiness" and uses themes such as productivity, networks and competitiveness to shed new light on family businesses. Moreover, it approaches the juxtaposition between family business and regional studies to encourage the cross-fertilisation of ideas, theories, and research methods between the two fields. Bringing together leading experts in entrepreneurship, regional economics, and economic geography, this book will be a valuable reading for advanced students, researchers and policymakers interested in family firms, regional studies and economic geography.

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## **ANTICANCER PLANTS: CLINICAL TRIALS AND NANOTECHNOLOGY**

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### **VOLUME 3**

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*Springer* Cancer is one of the leading causes of death in human beings. Though several synthetic medicines are used to treat cancer, they are largely inefficient and unsafe. In contrast, plants, which have been used for medicinal purposes since time immemorial, have proved to be useful in fighting cancer, with natural compounds from plants and their derivatives offering safe and effective treatment and management for several types of cancer. Plants such as *Catharanthus roseus*, *Podophyllum peltatum*, *Taxus brevifolia*, *Camptotheca acuminata*, *Andrographis paniculata*, *Crateva nurvala*, *Croton tonkinensis*, *Oplopanax horridus* etc., are important source of chemotherapeutic compounds. These plants have proven their value in the treatment of cancer and various other infectious diseases, and several common anticancer compounds such as taxol, podophyllotoxins, camptothecin, vinblastine, vincristine, homoharringtonine etc. have been isolated and purified from these medicinal plants. Unfortunately, many of these anticancer plants have become endangered due to ruthless and irresponsible harvesting practices. Hence, there is a need to conserve these species and to propagate them on a large scale using plant tissue culture. Alternatively, plant cell tissue and organ culture biotechnology could be adopted to produce these anticancer compounds without the need for cultivation. A better grasp and continuing exploration of these isolated molecules and products could provide a powerful alternative means of reducing cancer risk. "Anticancer Plants: Volume 3, Clinical Trials and Nanotechnology" provides a timely review of concepts and experimental data on the application of anticancer plants and their compounds in clinical trials, and on the use of nanotechnology in cancer therapy.

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## **COOPETITION STRATEGY**

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### **THEORY, EXPERIMENTS AND CASES**

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*Taylor & Francis* The book examines the theories of co-opetition and follows this up with empirically based case studies as well as experimental evidence from the laboratory and will be of interest to those involved with strategic management.

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## **COMPUTATIONAL MATERIALS SCIENCE**

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### **THE SIMULATION OF MATERIALS, MICROSTRUCTURES AND PROPERTIES**

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*Wiley-VCH* Modeling and simulation play an ever increasing role in the development and optimization of materials. *Computational Materials Science* presents the most important approaches in this new interdisciplinary field of materials science and engineering. The reader will learn to assess which numerical method is appropriate for performing simulations at the various microstructural levels and how they can be coupled. This book addresses graduate students and professionals in materials science and engineering as well as materials-oriented physicists and mechanical engineers.