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Fundamentals of Combustion Processes
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 Handbook of Computational Molecular Biology
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 The Life and Letters of John Brown
 Challenging Topics in Neuroanesthesia and Neurocritical Care
 Corporate Ethics and Corporate Governance
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 The Political Economy of Culture
 The Times Good University Guide 2021
 Super-Resolution Microscopy
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 Disaster Management and Preparedness
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 The Genesis Mission

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HUDSON NICHOLSON

Fundamentals of Combustion Processes Humana Press

This book represents an introduction to and overview of the diverse facets of the ethical challenges confronting companies today. It introduces executives, students and interested observers to the complex trends and developments in business ethics. Coverage presents industry-specific topics in ethics. The book also provides a general, interdisciplinary survey of the ethical dimensions of management and business.

Culture Works Times Books

A multi-country study of the conditions under which decentralized countries might ensure fiscal discipline. In many parts of the world, lower levels of government are taking over responsibilities from national authorities. This often leads to difficulty in maintaining fiscal discipline. So-called soft budget constraints allow these subnational governments to expand expenditures without facing the full cost. Until now, however, there has been little understanding of how decentralization leads

to large fiscal deficits and macroeconomic instability. This book, based on a research project at the World Bank, develops an analytical framework for considering the issues related to soft budget constraints, including the institutions, history, and policies that drive expectations for bailouts among subnational governments. It examines fiscal, financial, political, and land market mechanisms for subnational discipline in Argentina, Brazil, Canada, China, Germany, Hungary, India, Norway, South Africa, Ukraine, and the United States. The book concludes that the dichotomy between market and hierarchical mechanisms is false. Most countries--and virtually all developing countries--must rely on market mechanisms as well as hierarchical constraints to maintain fiscal discipline. When bailouts cannot be avoided, they present important opportunities to reform underlying institutions. Successful market discipline--where voluntary lenders perform important monitoring functions--is most likely to emerge from a gradual process that begins with carefully crafted rules and oversight.

Architectures, Algorithms, and Applications Viking

NASA's Genesis mission, launched on August 8, 2001 is the fifth mission in the Discovery series. Genesis addresses questions about the materials and processes involved in the origin of the solar

system by providing precise knowledge of solar isotopic and elemental compositions for comparison with the compositions of meteoritic and planetary materials. This book describes the Genesis mission, the solar wind collector materials, the solar wind concentrator and simulations of its performance, the plasma ion and electron instruments, and the way these two instruments are used to determine the solar wind flow regime on board the spacecraft. The book is of interest to all potential users of the data returned by the Genesis mission, to those studying the isotopic and chemical composition of the early solar system whose work will be influenced by the measurements made by Genesis and by all those interested in the design and implementation of space instruments to study space plasmas.

John Wiley & Sons

Enzyme Technology is one the most promising disciplines in modern biotechnology. In this book, the applications of a wide variety of enzymes are highlighted. Current studies in enzyme technology are focused towards the discovery of novel enzymes (termed "bio-discovery" or "bio-prospecting") and the identification and elucidation of novel pathways of these novel enzymes with emphasis on their industrial relevance. With the development of molecular techniques and other

bioinformatics tools, the time to integrate this subject with other fields in the life sciences has arrived. A rapid expansion of the knowledge base in the field of enzyme biotechnology has occurred over the past few years. Much of this expansion has been driven by the bio-discovery of many new enzymes from a wide range of environments, some extreme in nature, followed by subsequent protein (enzyme) engineering. These enzymes have found a wide range of applications, ranging from bioremediation, bio-monitoring, biosensor development, bioconversion to biofuels and other biotechnologically important value-added products. Hydrolases constitute a major component of the global annual revenue generated by industrial enzymes and the emphasis has therefore been placed on these enzymes and their applications. With the immense interest of researchers active in this area, this book will serve to provide information on current aspects in this field of study. In the current edition, the contributions of many diversified topics towards establishing new directions of research in the area of enzyme biotechnology are described. This book serves to provide a unique source of information to undergraduates, post graduates and doctoral courses in microbiology and biotechnology along with allied life sciences. The present edition of the book covers all important areas of enzyme biotechnology i.e. the wide variety of enzymes in the field of enzyme biotechnology and their industrial applications, new methods and state-of-the-art information on modern methods of enzyme discovery. This book will act as good resource on most of the current facets of enzyme technology for all students engaged in bioengineering and biotechnology.

Plant Epigenetics MDPI

Microcontrollers have become an indispensable part of modern electronics. They make things possible that vastly exceed what could be done previously. Innumerable applications show that almost nothing is impossible. There's thus every reason to learn more about them, but that raises the question of where to find a good introduction to this fascinating technology. The answer is easy: this Microcontroller Basics book, combined with the 89S8252 Flash Board project published by Elektor Electronics. However, this book offers more than just a basic introduction. It clearly explains the technology using various microcontroller circuits and programs written in several different programming languages. Three microcontrollers from the 8051 family are used in the sample applications, ranging from the simple 89C2051 to the AN2131, which is designed to support USB applications. The programming tools include assemblers, Basic-52 and BASCOM-51, and several C compilers. Every reader can thus find the programming environment most suitable to his or her needs. In the course of the book, the reader gradually develops increased competence in converting his or her ideas into microcontroller circuitry. All of the sample programs can be downloaded from the Elektor Electronics website. That has the added advantage that the latest versions are always available.

Handbook of Computational Molecular Biology Springer

This book provides a comprehensive overview of the state-of-the-art in group III-nitride based ultraviolet LED and laser technologies, covering different substrate approaches, a review of optical, electronic and structural properties of InAlGaN materials as well as various optoelectronic components. In addition, the book gives an overview of a number of key application areas for UV emitters and detectors, including water purification, phototherapy, sensing, and UV curing. The book is written for researchers and graduate level students in the area of semiconductor materials, optoelectronics and devices as well as developers and engineers in the various application fields of UV emitters and detectors.

Thomas Register of American Manufacturers and Thomas Register Catalog File Springer Science & Business Media

Data Preprocessing for Data Mining addresses one of the most important issues within the well-known Knowledge Discovery from Data process. Data directly taken from the source will likely have inconsistencies, errors or most importantly, it is not ready to be considered for a data mining process. Furthermore, the increasing amount of data in recent science, industry and business applications, calls to the requirement of more complex tools to analyze it. Thanks to data preprocessing, it is possible to convert the impossible into possible, adapting the data to fulfill the input demands of each data mining algorithm. Data preprocessing includes the data reduction techniques, which aim at reducing the complexity of the data, detecting or removing irrelevant and noisy elements from the data. This book is intended to review the tasks that fill the gap between the data acquisition from the source and the data mining process. A comprehensive look from a practical point of view, including basic concepts and surveying the techniques proposed in the specialized literature, is given. Each chapter is a stand-alone guide to a particular data

preprocessing topic, from basic concepts and detailed descriptions of classical algorithms, to an incursion of an exhaustive catalog of recent developments. The in-depth technical descriptions make this book suitable for technical professionals, researchers, senior undergraduate and graduate students in data science, computer science and engineering.

The Life and Letters of John Brown Springer

This volume presents current advanced technologies and methods used in super-resolution microscopy. The chapters in this book cover a wide range of topics such as introducing super-resolution microscopy into a core facility; two-photon STED microscopy for nanoscale imaging of neural morphology in vivo; correlative SIM-STORM microscopy; two-color single-molecule tracking in live cells; and correlative single molecule localization microscopy and confocal microscopy. 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. Cutting-edge and comprehensive, Super-Resolution Microscopy: Methods and Protocols is a valuable resource for both established and novel researchers and users in this field.

Challenging Topics in Neuroanesthesia and Neurocritical Care Disaster Management and Preparedness

This book provides a comprehensive and accessible source of information on all types of sweeteners and functional ingredients, enabling manufacturers to produce low sugar versions of all types of foods that not only taste and perform as well as sugar-based products, but also offer consumer benefits such as calorie reduction, dental health benefits, digestive health benefits and improvements in long term disease risk through strategies such as dietary glycaemic control. Now in a revised and updated new edition which contains seven new chapters, part I of this volume addresses relevant digestive and dental health issues as well as nutritional considerations. Part II covers non-nutritive, high-potency sweeteners and, in addition to established sweeteners, includes information to meet the growing interest in naturally occurring sweeteners. Part III deals with the bulk sweeteners which have now been used in foods for over 20 years and are well established both in food products and in the minds of consumers. In addition to the "traditional" polyol bulk sweeteners, newer products such as isomaltulose are discussed. These are seen to offer many of the advantages of polyols (for example regarding dental health and low glycaemic response) without the laxative side effects if consumed in large quantity. Part IV provides information on the sweeteners which do not fit into the above groups but which nevertheless may offer interesting sweetening opportunities to the product developer. Finally, Part V examines bulking agents and multifunctional ingredients which can be beneficially used in combination with all types of sweeteners and sugars.

Corporate Ethics and Corporate Governance Springer Science & Business Media

Vols. for 1970-71 includes manufacturers catalogs.

Computational Medicine Springer Science & Business Media

Volume one of the Handbooks of Management Accounting Research sets the context for both Handbooks, with three chapters outlining the historical development of management accounting as a discipline and as a practice in three broad geographic settings. The bulk of the first volume then draws together a series of contributions that analyse the scholarly literature in terms of distinct intellectual and theoretical social science perspectives. The volume includes a chapter which looks at work informed by psychology as a base discipline. The volume also includes a set of chapters that seek to evaluate and explain issues of research method for the different approaches to research found within management accounting. Special pricing available if purchased as a set with Volume 2. Documents the scholarly management accounting literature Publishing both in print, and online through Science Direct International in scope

The Political Economy of Culture MDPI

Computational methodologies and modeling play a growing role for investigating mechanisms, and for the diagnosis and therapy of human diseases. This progress gave rise to computational medicine, an interdisciplinary field at the interface of computer science and medicine. The main focus of computational medicine lies in the development of data analysis methods and mathematical modeling as well as computational simulation techniques specifically addressing medical problems. In this book, we present a number of computational medicine topics at several scales: from molecules to cells, organs, and organisms. At the molecular level, tools for the analysis of genome variations as well as cloud computing resources for medical genetics are reviewed. Then, an analysis of gene expression data and the application to the characterization of

microbial communities are highlighted. At the protein level, two types of analyses for mass spectrometry data are reviewed: labeled quantitative proteomics and lipidomics, followed by protein sequence analysis and a 3D structure and drug design chapter. Finally, three chapters on clinical applications focus on the integration of biomolecular and clinical data for cancer research, biomarker discovery, and network-based methods for computational diagnostics.

The Times Good University Guide 2021 CRC Press

Since the first attempts at structure-based drug design about four decades ago, molecular modelling techniques for drug design have developed enormously, along with the increasing computational power and structural and biological information of active compounds and potential target molecules. Nowadays, molecular modeling can be considered to be an integral component of the modern drug discovery and development toolbox. Nevertheless, there are still many methodological challenges to be overcome in the application of molecular modeling approaches to drug discovery. The eight original research and five review articles collected in this book provide a snapshot of the state-of-the-art of molecular modeling in drug design, illustrating recent advances and critically discussing important challenges. The topics covered include virtual screening and pharmacophore modelling, chemoinformatic applications of artificial intelligence and machine learning, molecular dynamics simulation and enhanced sampling to investigate contributions of molecular flexibility to drug-receptor interactions, the modeling of drug-receptor solvation, hydrogen bonding and polarization, and drug design against protein-protein interfaces and membrane protein receptors.

Super-Resolution Microscopy Springer

Study of the Russian painter and 'inventor' of Abstract Art, Vasily Kandinsky (1866-1944) and the European artists who formed the 'Blaue Reiter' group from 1911 onwards

Planetary Habitability MIT Press

Fundamentals of Combustion Processes is designed as a textbook for an upper-division undergraduate and graduate level combustion course in mechanical engineering. The authors focus on the fundamental theory of combustion and provide a simplified discussion of basic combustion parameters and processes such as thermodynamics, chemical kinetics, ignition, diffusion and pre-mixed flames. The text includes exploration of applications, example exercises, suggested homework problems and videos of laboratory demonstrations

A Public Health Perspective Springer Science & Business Media

Essential guide to British universities that gives you all the information you need to make the crucial decisions on what to study, where to study, and how much it might cost. Objective and authoritative, it is the best-selling guide to making the right university choice for you. For more than 25 years The Times and Sunday Times Good University Guide has provided the most accurate and up-to-date information about British universities to help make the choice of which universities to apply to as easy as possible. Its university and subject league tables are the most respected and studied in Britain. This definitive guide is designed for those who are applying to start courses in 2020. * How to select the right course and university * Compare university performance. * Clear guidance on the application process. * Valuable advice on university life A new section for the 2020 guide gives an outline on where students come from which includes a ranking table on social inclusion. Written by John O'Leary, former Editor of The Times Higher Education Supplement, this is the most authoritative guide available. The university and subject tables inside are the most respected and studied in Britain.

United States Civil Aircraft Register Elektor Electronics

Disaster Management and Preparedness CRC Press

Liberator of Kansas, and Martyr of Virginia Springer Science & Business Media

This book focuses on controversial issues in neuroanesthesia and neurocritical care that in general have been subjected to insufficient professional scrutiny. The book is in three parts, the first of which is devoted to topics relating to traumatic brain and spinal cord injury, such as brain tissue oxygenation, the role of biomarkers, and diagnosis of brain death. Aspects of airway and pain management are then addressed, covering, for example, airway management in an emergency setting, airway evaluation in the edentulous patient, and pain management in neurosurgery and after craniotomy. The final part of the book considers a wide range of other challenging subjects in the field of neuroanesthesia and neurocritical care. Throughout, much information is provided on the latest, state of the art management. The authors are acknowledged experts in the issues they discuss, and the book will be of interest for graduate and undergraduate students, residents, neuroanesthetists, neurointensivists, emergency medicine residents and specialists, fellows in

neurocritical care and all those directly involved in the perioperative care of patients with head and neck pathology.

WHO Handbook on Indoor Radon CRC Press

This book discusses the role of probiotics and prebiotics in maintaining the health status of a broad range of animal groups used for food production. It also highlights the use of beneficial microorganisms as protective agents in animal derived foods. The book provides essential

information on the characterization and definition of probiotics on the basis of recently released guidelines and reflecting the latest trends in bacterial taxonomy. Last but not least, it discusses the concept of "dead" probiotics and their benefits to animal health in detail. The book will benefit all professors, students, researchers and practitioners in academia and industry whose work involves biotechnology, veterinary sciences or food production.

Technology and Applications World Health Organization

The "Age-Friendly Cities & Communities: States of the Art and Future Perspectives" publication presents contemporary, innovative, and insightful narratives, debates, and frameworks based on an international collection of papers from scholars spanning the fields of gerontology, social sciences, architecture, computer science, and gerontechnology. This extensive collection of papers aims to move the narrative and debates forward in this interdisciplinary field of age-friendly cities and communities.

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