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Consequences of Microbial Interactions with Hydrocarbons, Oils, and Lipids: Production of Fuels and Chemicals - Sang Yup Lee 2018-03-04

This book covers the current states of microbial and related technologies that have been developed for the efficient production of chemicals, fuels and materials by integrating strain and enzyme development, fermentation processes, and downstream processes. The book also covers how microbes and microbial products can be employed to facilitate petroleum recovery. Global consequences of bio-based production of chemicals, fuels and materials are also discussed with insights.

Design of Clothing Manufacturing Processes - Jelka Geršak 2022-02-18

This second edition of Design of Clothing Manufacturing Processes comprehensively addresses the design and planning of clothing manufacturing processes, beginning with the classification of clothing and discussion of its market, clothing sizing systems, and the key issues involved in developing a fashion collection. Special emphasis is placed on production planning and control, with detailed coverage of the processes of design, pattern making and cutting, joining techniques, work analysis, clothing manufacturing planning, and the behaviour, performance, and quality of materials critical to the development, planning, and control of manufacturing processes and the sale of garments. With its descriptions of the rapid, integrated, and flexible manufacturing systems of today, driven by demand information, this book explains how new supply chain models and manufacturing processes can lead to a much quicker route from design to distribution. This new edition is updated with important new research and topics, including digital fashion incorporating scientific aspects of fabric modelling, simulation and digital fitting, and the performance of seams as an important criterion for the quality and appearance of clothing. Considers in detail the design of clothing classification and sizing systems Comprehensively presents the requirements of digital fashion, the terminology used for virtual garment, fabric modelling for virtual clothing simulation, and digital fitting Covers the production planning in all aspects of clothing production from design and pattern making to manufacture Provides a thorough review and description of quality requirements for clothing materials Looks in detail at the performance of stitched seams, from the theoretical basis for determining seam strength and the parameters that affect seam strength, to the phenomenon of seam pucker

Biological Nitrogen Fixation, Sustainable Agriculture and the Environment - Yi-Ping Wang 2010-10-28

The 14th International Nitrogen Fixation Congress was held in Beijing, China from October 27th through November 1st, 2004. This volume constitutes the proceedings of the Congress and represents a compilation of the presentations by scientists from more than 30 countries around the World who came to Beijing to discuss the progress made since the last Congress and to exchange ideas and information. This year marked the 30th anniversary of the first Congress held in Pullman, Washington, USA, in 1974. Since then, this series of Congresses has met five times in North America (three in the United States and once each in Canada and Mexico), once in South America (Brazil), four times in Western Europe (once each in Spain, The Netherlands, Germany and France), once in Eastern Europe (Russia), and once in Australia; and now for the first time in Asia. China was a most appropriate choice because China is a big country with the largest population in the World, about 1.3 billion people, which is about 22% of the World's population. It is traditionally an agricultural country, even though China has only 7% of the available farming land. This situation explains why agriculture and its productivity are major issues for the Chinese people, its government and the

scientists in the field.

The Future of Eco-labelling - Frieder Rubik 2017-09-29

Eco-labelling is one of the key tools used by policy-makers in many parts of the world to encourage more sustainable production and consumption. By providing environmental information on products and services, eco-labels address both business users and consumers and range from mandatory approaches, such as required product declarations, to voluntary approaches, such as national eco-labels. Eco-labels can play an important role in environmental policy. They reward and promote environmentally superior goods and services and offer information on quality and performance with respect to issues such as health and energy consumption. Eco-labels fit well into a multi-stakeholder policy framework – as promulgated recently by the EU's integrated product policy (IPP) – since the development of criteria for labels and the acceptance in the market requires the involvement of a wide range of different parties, from government and business, to consumers and environmental organisations. However, many eco-labelling schemes have had troubled histories, and questions have been raised about their effectiveness. So, are eco-labels an effective tool to foster the development, production, sale and use of products and to provide consumers with good information about the environmental impacts of those products? Is eco-labelling useful to business as a marketing tool? What factors contribute to the development of successful schemes? More than ten years after its establishment, can the EU Flower be considered a success? Are national eco-labels such as the German Blue Angel and the Norwegian White Swan more effective? Should eco-labels be harmonised? Are eco-labels achieving their original aim of fostering sustainable production and consumption? For which product groups are ISO type I eco-labels appropriate and inappropriate? Are other labels, such as mandatory, ISO type II and ISO type III labels more effective in some cases? Are eco-labels focusing on the main environmental policy targets or just on "low-hanging fruit"? Are eco-labels really linked to other tools of IPP? The Future of Eco-labelling provides answers to all of these questions. Based on a major EU research exercise, the book plots a course for policy-makers to address some of the historic problems with eco-labelling, to learn what works and what doesn't and to move forward with schemes that can make a real difference to sustainable production and consumption. The book analyses the conditions under which eco-labelling schemes—both mandatory and voluntary—are or can become an efficient and effective tool to achieve given objectives; assesses previous experiences with eco-labels in different European countries and the relationship of these schemes with business strategies, IPP and market conditions; defines strategies aimed at linking eco-labels with other IPP measures; explores how eco-labels can be used to encourage sustainable consumption patterns, create green markets, foster innovation and development of green products and services, and implement multi-stakeholder initiatives; and sets out detailed recommendations for the future of eco-labelling. The book will be required reading for policy-makers, businesses involved with eco-labelling schemes and researchers interested in the development of sustainable production and consumption and IPP worldwide.

Roth Collection of Natural Products Data - Lutz Roth 2008-07-11

More and more attention is being paid to natural products chemistry. The number of recently discovered and described natural products is constantly increasing, leading to an abundance of detailed information in diverse specialist journals. The Roth Collection of Natural Products Data gives a clear overview of this development. It presents the data of approximately 75 selected natural products of plant origins in a concise

and standardized form. The collection contains descriptions of the products with information on the physical and chemical properties, location, toxicology and risk potential. Complete spectroscopic and chromatographic data with clear information on measurement conditions and peaks round off the detailed depictions. With its illustrations of NMR, mass and IR spectra and its structural formulas, the collection is an important and stimulating reference work. Selected and commented references on each natural product facilitate the search for further information. Natural product chemists, pharmacists, biologists and toxicologists in research, industry and academia will soon find this reference work indispensable.

[Analysis and Simulation of Contact Problems](#) - Peter Wriggers 2006-08-15

This carefully edited book offers a state-of-the-art overview on formulation, mathematical analysis and numerical solution procedures of contact problems. The contributions collected in this volume summarize the lectures presented by leading scientists in the area of contact mechanics, during the 4th Contact Mechanics International Symposium (CMIS) held in Hannover, Germany, 2005.

[Copper and Copper Alloys](#) - 2001-06-01

RNA Activation - Long-Cheng Li 2017-06-19

This book offers an essential guide to RNA activation (RNAa), an emerging and fascinating new field. RNAa is a small RNA-guided and Argonaute-dependent gene regulation phenomenon in which promoter-targeted short double-stranded RNAs (dsRNAs) induce target gene expression at the transcriptional level. It occurs primarily in the nucleus and can be mediated by artificially designed short duplex RNAs that target regulatory sequences (e.g., promoters, genes' 3' termini and enhancers) and naturally occurring small RNAs (e.g., miRNAs and *C. elegans* 22G-RNAs). With contributions from internationally respected RNA experts, this book provides comprehensive coverage of different RNAa mechanisms and a timely update on recent advances in RNAa research, with a focus on developing RNAa-based therapeutics. Special chapters are also devoted to the topics of gene activation induced by antisense oligonucleotides and the CRISPR system. As the first book to cover RNAa, it will be of interest to a wide audience, from scientists in academia and the pharmaceutical industry to clinicians who wish to further explore the biology of RNAa and related phenomena, so as to harness their full potential for use in biotechnology and drug development.

Starch Polymers - P. Halley 2014-03-08

This book focuses on starch polymers including starch genetics, biotechnological and chemical modification, nanostructures, processing, characterization, properties and applications. This book's topic is in a cutting edge and emerging technology area of biomaterials, nanomaterials and renewable materials, and will involve international experts in diverse fields from genetic engineering to applications. Focuses on cutting edge applications of starch polymers, including starch genetics and Rheology. Contains working examples and provides real problems and solutions in the area of biomaterials, nanomaterials, and renewable materials. Provides systematic and in-depth coverage and critical assessment of all starch properties and applications from top scientists in the industry.

Anthropometry and Biomechanics - Ronald Easterby 2012-12-06

Assessment of the physical dimensions of the human body and application of this knowledge to the design of tools, equipment, and work are certainly among the oldest arts and sciences. It would be an easy task if all anthropometric dimensions, of all people, would follow a general rule. Thus, philosophers and artists embedded their ideas about the most aesthetic proportions into ideal schemes of perfect proportions.

"Golden sections" were developed in ancient India, China, Egypt, and Greece, and more recently by Leonardo DaVinci, or Albrecht Durer. However, such canons are fictive since actual human dimensions and proportions vary greatly among individuals. The different physical appearances often have been associated with mental, physiological and behavioral characteristics of the individuals. Hippocrates (about 460-377 BC) taught that there are four temperaments (actually, body fluids) represented by four body types. The psychiatrist Ernst Kretschmer (1888-1964) proposed that three typical somatotypes (pyknic, athletic, asthenic) could reflect human character traits. Since the 1940's, W. H. Sheldon and his coworkers devised a system of three body physiques (endo-, meso-, ectomorphic). The classification was originally qualitative, and only recently has been developed to include actual measurements.

Applications of X-ray Computed Tomography in the Geosciences - Florias Mees 2003

X-ray computed tomography (CT) is a technique that allows non-destructive imaging and quantification of internal features of objects. X-ray CT reveals differences in density and atomic composition and can therefore be used for the study of porosity, the relative distribution of contrasting solid phases and the penetration of injected solutions. In this book, various applications of X-ray CT in the geosciences are illustrated by papers covering a wide range of disciplines, including petrology, soil science, petroleum geology, geomechanics and sedimentology.

A Better Planet - Daniel C. Esty 2019-10-22

A practical, bipartisan call to action from the world's leading thinkers on the environment and sustainability. Sustainability has emerged as a global priority over the past several years. The 2015 Paris Agreement on climate change and the adoption of the seventeen Sustainable Development Goals through the United Nations have highlighted the need to address critical challenges such as the buildup of greenhouse gases in the atmosphere, water shortages, and air pollution. But in the United States, partisan divides, regional disputes, and deep disagreements over core principles have made it nearly impossible to chart a course toward a sustainable future. This timely new book, edited by celebrated scholar Daniel C. Esty, offers fresh thinking and forward-looking solutions from environmental thought leaders across the political spectrum. The book's forty essays cover such subjects as ecology, environmental justice, Big Data, public health, and climate change, all with an emphasis on sustainability. The book focuses on moving toward sustainability through actionable, bipartisan approaches based on rigorous analytical research.

Underground Crops - Douglas E. Horton 1988

Roots crop characteristics; Accuracy of root crop statistics; About the tables; A note on African root crops data.

The Key to Sustainable Cities - Gwendolyn Hallsmith 2003-09-01

Most of the world's population now live in cities, but despite wide agreement on the core values of sustainable societies, municipalities are so busy solving current problems, they don't have the time or resources to plan effective action for sustainability. *The Key to Sustainable Cities* uses the principles of system dynamics to demonstrate how today's problems were yesterday's solutions. The book points to a new approach to city planning that builds on assets as a starting point for cities to develop healthy social, governance, economic, and environmental systems. Gwendolyn Hallsmith has worked to build sustainable communities for over twenty years as a municipal manager, a regional planning director, and with the Institute for Sustainable Communities. She lives in Marshfield, Vermont.

Animal Toxins - Hervé RoCHAT 2000

Natural toxins form a major component of the molecular tools used increasingly frequently by the ever growing number of laboratories of various kinds. Evidence for this is provided not only by the increasing number of firms including such toxins in their catalogues but also by the large number of demands received by those who discover new toxins. Twenty chapters survey important aspects of toxin origin, their structure and molecular mechanism, and their cellular and pathogenic effects. In addition, the text provides comprehensive and specific methodology for the application of these toxins in the research laboratory. This begins with the description of the method of extraction, biochemical and pharmacological characterization, and assessment of purity, and continues with methods for chemical modification, e.g. labelling, and eventually describes applications in pharmacological studies in vivo and/or in vitro. The length of this book has been kept reasonable by concentrating on...

[Anthropometry, Apparel Sizing and Design](#) - Norsaadah Zakaria 2019-10-05

Anthropometry, Apparel Sizing and Design, Second Edition, reviews techniques in anthropometry, sizing system developments, and their applications to clothing design. The book addresses the need for the improved characterization of population size, weights and the shapes of consumers. This new edition presents the very latest advances, and is expanded to include in-depth coverage of sizing and fit for specific groups and applications. Sections cover the development of sizing systems, classification and body types, the use of anthropometric data, body measurement devices and techniques, including 3D scanners for the full body and for particular body parts, 4D scanning technology and motion analysis. Additional sections cover testing and the evaluation of fit and anthropometric sizing systems for particular functions, thus reflecting the increasing need for apparel to meet specific needs, such as in swimwear, protective clothing,

mobility, intimate apparel, footwear and compression garments. This book will be an essential reference source for apparel designers, manufacturers, retailers and merchandisers. Its detailed information and data will also be of great interest to researchers and postgraduate students across clothing technology, product design, fashion and textiles. Reviews methods and techniques in anthropometry, sizing system development, and applications in clothing design Enables users to understand and utilize detailed anthropometric data Covers sizing and fit for particular uses, including protective clothing, compression garments, intimate apparel and footwear

International Monetary Fund Annual Report 1957 - International Monetary Fund 1957-09-02

This paper reviews key findings of the IMF's Annual Report for the fiscal year ended April 30, 1957. The report highlights that boom conditions continued throughout 1956, sustained by an undercurrent of private business investment sufficiently strong to compensate for such weaknesses as appeared in some individual sectors. Any apprehensions, which might have been entertained in the early months of the year that the upward trend of business was soon to be reversed, were thus shown to be without foundation.

Circular Economy: Global Perspective - Sadhan Kumar Ghosh 2019-11-01

A circular economy is an alternative to a traditional linear economy (make, use, dispose) in which we keep resources in use for as long as possible, extract the maximum value from them whilst in use, then recover and regenerate products and materials at the end of each service life. Circular economy (CE) is important towards sustainable development, resources circulation and conservation, involving closing of material loops and cascading used resources, to prevent waste occurrence, and transforming the resulting residual streams into new (secondary) resources. Strategies and legislative framework for waste management are important steps for development of a more CE where resource efficiency becomes the key driver for both economic growth and environmental protections. A few countries achieved good results implementing CE as a replacement of the linear economy. Resource managers and planners should thoroughly identify factors to implement CE for societal benefits. This book presents how resource consumption is minimized with rational use based on 3Rs, legislative framework and government supports towards implementing CE initiatives, example of best practices, future plans and targets in different countries those are helpful for researchers, planners and implementers.

Hourly Compensation Costs for Production Workers in Manufacturing - 1979

Introduction to Corrosion Science - E. McCafferty 2010-01-04

This textbook is intended for a one-semester course in corrosion science at the graduate or advanced undergraduate level. The approach is that of a physical chemist or materials scientist, and the text is geared toward students of chemistry, materials science, and engineering. This textbook should also be useful to practicing corrosion engineers or materials engineers who wish to enhance their understanding of the fundamental principles of corrosion science. It is assumed that the student or reader does not have a background in electrochemistry. However, the student or reader should have taken at least an undergraduate course in materials science or physical chemistry. More material is presented in the textbook than can be covered in a one-semester course, so the book is intended for both the classroom and as a source book for further use. This book grew out of classroom lectures which the author presented between 1982 and the present while a professorial lecturer at George Washington University, Washington, DC, where he organized and taught a graduate course on "Environmental Effects on Materials." Additional material has been provided by over 30 years of experience in corrosion research, largely at the Naval Research Laboratory, Washington, DC and also at the Bethlehem Steel Company, Bethlehem, PA and as a Robert A. Welch Postdoctoral Fellow at the University of Texas. The text emphasizes basic principles of corrosion science which underpin extensions to practice.

Intestinal Lipid Metabolism - Charles M. Mansbach II 2011-06-28

This book was stimulated by the enthusiasm shown by attendees at the meetings in Saxon River, VT, sponsored by the Federation of American Societies for Experimental Biology (FASEB), on the subject of the intestinal processing of lipids. When these meetings were first started in 1990, the original organizers, two of whom are editors of this volume (CMM and PT), had two major goals. The first was to bring together a diverse group of investigators who had the common goal of gaining a better understanding of how the intestine ab-

sorbs lipids. The second was to stimulate the interest of younger individuals whom we wished to recruit into what we believed was an exciting and fruitful area of research. Since that time, the field has opened up considerably with new questions being asked and new answers obtained, suggesting that our original goals for the meetings were being met. In the same spirit, it occurred to us that there has not been a recent book that draws together much of the information available concerning how the intestine processes lipids. This book is intended to reach investigators with an interest in this area and their pre- and post doctoral students. The chapters are written by individuals who have a long-term interest in the areas about which they write, and many have been speakers at the subsequent FASEB conferences that have followed on the first.

The Universe of Fluctuations - Burra Sidharth 2005-08-29

The Universe of Fluctuations: The Architecture of Spacetime and the Universe is a path-breaking work which proposes solutions to the impasse and crisis facing fundamental physics and cosmology. It describes a cosmological model based on fuzzy spacetime that has correctly predicted a dark-energy-driven acceleration of our expanding universe - with a small cosmological constant - at a time when the popular belief was quite the contrary. It describes how the Universe is made up of an underpinning of Planck oscillators in a Quantum Vacuum. This leads to, amongst other things, a characterization of gravitation as being distributional over the entire Universe, thereby providing an answer to a puzzle brought to light by Weinberg years ago and since overlooked. There is also a simple formula for the mass spectrum of all known elementary particles, based on QCD dynamics. Many other interesting ramifications and experimental tests for the future are also discussed. This apart, there is a brief survey of some of the existing theories. The book is accessible to junior and senior researchers in High Energy Physics and Cosmology as well as the serious graduate student in Physics.

Handbook of Bioenergy Economics and Policy - Madhu Khanna 2009-12-02

Concerns about energy security, uncertainty about oil prices, declining oil reserves, and global climate change are fueling a shift towards bioenergy as a renewable alternative to fossil fuels. Public policies and private investments around the globe are aiming to increase local capacity to produce biofuels. A key constraint to the expansion of biofuel production is the limited amount of land available to meet the needs for fuel, feed, and food in the coming decades. Large-scale biofuel production raises concerns about food versus fuel tradeoffs, about demands for natural resources such as water, and about potential impacts on environmental quality. The book is organized into five parts. The introductory part provides a context for the emerging economic and policy challenges related to bioenergy and the motivations for biofuels as an energy source. The second part of the handbook includes chapters that examine the implications of expanded production of first generation biofuels for the allocation of land between food and fuel and for food/feed prices and trade in biofuels as well as the potential for technology improvements to mitigate the food vs. fuel competition for land. Chapters in the third part examine the infrastructural and logistical challenges posed by large scale biofuel production and the factors that will influence the location of biorefineries and the mix of feedstocks they use. The fourth part includes chapters that examine the environmental implications of biofuels, their implications for the design of policies and the unintended environmental consequences of existing biofuel policies. The final part presents economic analysis of the market, social welfare, and distributional effects of biofuel policies.

Synthesis and Application of Organoboron Compounds - Elena Fernández 2015-03-04

The series Topics in Organometallic Chemistry presents critical overviews of research results in organometallic chemistry. As our understanding of organometallic structure, properties and mechanisms increases, new ways 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 in pure and applied organometallic chemistry, where new breakthroughs are being achieved that are of significance to a larger scientific audience. The individual volumes of Topics in Organometallic Chemistry are thematic. Review articles are generally invited by the volume editors.

Rhodium Catalyzed Hydroformylation - Piet W.N.M. van Leeuwen 2006-04-11

In the last decade there have been numerous advances in the area of rhodium-catalyzed hydroformylation, such as highly selective catalysts of industrial importance, new insights into mechanisms of the reaction,

very selective asymmetric catalysts, in situ characterization and application to organic synthesis. The views on hydroformylation which still prevail in the current textbooks have become obsolete in several respects. Therefore, it was felt timely to collect these advances in a book. The book contains a series of chapters discussing several rhodium systems arranged according to ligand type, including asymmetric ligands, a chapter on applications in organic chemistry, a chapter on modern processes and separations, and a chapter on catalyst preparation and laboratory techniques. This book concentrates on highlights, rather than a concise review mentioning all articles in just one line. The book aims at an audience of advanced students, experts in the field, and scientists from related fields. The didactic approach also makes it useful as a guide for an advanced course.

Amino Acid Fermentation - Atsushi Yokota 2017-05-11

This book presents the latest findings on amino acid fermentation and reviews the 50-year history of their development. The book is divided into four parts, the first of which presents a review of amino acid fermentation, past and present. The second part highlights selected examples of amino acid fermentation in more detail, while the third focuses on recent advanced technologies. The last part introduces readers to several topics for future research directions in amino acid production systems. A new field, "amino acid fermentation", was created by the progress of academic research and industrial development. In 1908, the Japanese researcher Kikunae Ikeda discovered glutamate as an Umami substance. Then a new seasoning, MSG (monosodium glutamate), was commercialized. Although glutamate was extracted from the hydrolysate of wheat or soybean in the early days, a new production method was subsequently invented – "fermentation" – in which glutamate is produced from sugars such as glucose by a certain bacterium called *Corynebacterium*. The topic of this volume is particularly connected in a significant way with biochemical, biotechnological, and microbial fields. Both professionals in industry and an academic audience will understand the importance of this volume.

Engineering Anthropometry Methods - J.A. ROEBUCK 1977

Atoms, Solids, and Plasmas in Super-Intense Laser Fields - Dimitri Batani 2001-09-30

Proceedings of the 30th Course of the International School of Quantum Electronics on Atoms, Solids and Plasmas in Super-Intense Laser Fields, held 8-14 July, in Erice, Sicily

Chitin and Chitosan - Lambertus A. M. van den Broek 2020-01-21

Offers a comprehensive guide to the isolation, properties and applications of chitin and chitosan. Chitin and Chitosan: Properties and Applications presents a comprehensive review of the isolation, properties and applications of chitin and chitosan. These promising biomaterials have the potential to be broadly applied and there is a growing market for these biopolymers in areas such as medical and pharmaceutical, packaging, agricultural, textile, cosmetics, nanoparticles and more. The authors – noted experts in the field – explore the isolation, characterization and the physical and chemical properties of chitin and chitosan. They also examine their properties such as hydrogels, immunomodulation and biotechnology, antimicrobial activity and chemical enzymatic modifications. The book offers an analysis of the myriad medical and pharmaceutical applications as well as a review of applications in other areas. In addition, the authors discuss regulations, markets and perspectives for the use of chitin and chitosan. This important book: Offers a thorough review of the isolation, properties and applications of chitin and chitosan. Contains information on the wide-ranging applications and growing market demand for chitin and chitosan. Includes a discussion of current regulations and the outlook for the future. Written for Researchers in academia and industry who are working in the fields of chitin and chitosan, Chitin and Chitosan: Properties and Applications offers a review of these promising biomaterials that have great potential due to their material properties and biological functionalities.

Pharmaceutical Biotechnology - Oliver Kayser 2012-05-21

This second edition of a very successful book is thoroughly updated with existing chapters completely rewritten while the content has more than doubled from 16 to 36 chapters. As with the first edition, the focus is on industrial pharmaceutical research, written by a team of industry experts from around the world, while quality and safety management, drug approval and regulation, patenting issues, and biotechnology fundamentals are also covered. In addition, this new edition now not only includes biotech drug development

but also the use of biopharmaceuticals in diagnostics and vaccinations. With a foreword by Robert Langer, Kenneth J Germeshausen Professor of Chemical and Biomedical Engineering at MIT and member of the National Academy of Engineering and the National Academy of Sciences.

Rare Tumors and Tumor-like Conditions in Urological Pathology - Antonio Lopez-Beltran 2014-11-14

This book is a comprehensive guide to rare tumors and tumor-like conditions of the urinary system and male genital organs. It comprises five chapters, devoted to the kidney, bladder, prostate, testes, and penis. Each chapter begins with a brief overview of "common" tumors and tumor-like conditions and with a section on the classification of both common and rare entities. The main clinical, pathological, immunohistochemical, and molecular findings for each rare tumor or tumor-like condition are then described and discussed. Significant characteristics are also documented by representative high-quality illustrations, with emphasis on those aspects of most relevance to differential diagnosis. In addition, prognostic features are fully covered. Urological Pathology: Rare Tumors and Tumor-Like Conditions will be ideal source of core information and practical guidance for residents, fellows, pathologists, urologists, and oncologists.

Photochemistry and Photophysics of Coordination Compounds - Hartmut Yersin 2012-12-06

Proceedings of the Seventh International Symposium on the Photochemistry and Photophysics of Coordination Compounds Elmau/FRG, March 29-April 2, 1987

Redox-Active Therapeutics - Ines Batinić-Haberle 2016-10-13

This essential volume comprehensively discusses redox-active therapeutics, focusing particularly on their molecular design, mechanistic, pharmacological and medicinal aspects. The first section of the book describes the basic aspects of the chemistry and biology of redox-active drugs and includes a brief overview of the redox-based pathways involved in cancer and the medical aspects of redox-active drugs, assuming little in the way of prior knowledge. Subsequent sections and chapters describe more specialized aspects of central nervous system injuries, neurodegenerative diseases, pain, radiation injury and radioprotection (such as of brain, lungs, head and neck and erectile function) and neglected diseases (e.g., leishmaniasis). It encompasses several major classes of redox-active experimental therapeutics, which include porphyrins, salens, nitrones, and most notably metal-containing (e.g., Mn, Fe, Cu, Zn, Sb) drugs as either single compounds or formulations with nanomaterials and quantum dots. Numerous illustrations, tables and figures enhance and complement the text; extensive references to relevant literature are also included. Redox-Active Therapeutics is an invaluable addition to Springer's Oxidative Stress in Applied Basic Research and Clinical Practice series. It is essential reading for researchers, clinicians and graduate students interested in understanding and exploring the Redoxome—the organism redox network—as an emerging frontier in drug design, redox biology and medicine.

Acoustic Waves in Periodic Structures, Metamaterials, and Porous Media - Noé Jiménez 2021-11-03

This book delivers a comprehensive and up-to-date treatment of practical applications of metamaterials, structured media, and conventional porous materials. With increasing levels of urbanization, a growing demand for motorized transport, and inefficient urban planning, environmental noise exposure is rapidly becoming a pressing societal and health concern. Phononic and sonic crystals, acoustic metamaterials, and metasurfaces can revolutionize noise and vibration control and, in many cases, replace traditional porous materials for these applications. In this collection of contributed chapters, a group of international researchers reviews the essentials of acoustic wave propagation in metamaterials and porous absorbers with viscothermal losses, as well as the most recent advances in the design of acoustic metamaterial absorbers. The book features a detailed theoretical introduction describing commonly used modelling techniques such as plane wave expansion, multiple scattering theory, and the transfer matrix method. The following chapters give a detailed consideration of acoustic wave propagation in viscothermal fluids and porous media, and the extension of this theory to non-local models for fluid saturated metamaterials, along with a description of the relevant numerical methods. Finally, the book reviews a range of practical industrial applications, making it especially attractive as a white book targeted at the building, automotive, and aeronautic industries.

Veterinary Surgical Instruments - College of Animal Welfare 1997

The surgical instruments used in veterinary nursing are described and illustrated in this book.

Forensic Investigation of Clandestine Laboratories - Donnell R. Christian, Jr. 2003-07-28

Clandestine lab operators are not the mad scientists whose genius keeps them pent up in the laboratory

contemplating elaborate formulas and mixing exotic chemicals. In fact, their equipment is usually simple, their chemicals household products, and their education basic. Most of the time the elements at the scene are perfectly legal to sell and own. It is only in the combination of all these elements that the lab becomes the scene of a criminal operation. *Forensic Investigation of Clandestine Laboratories* guides you, step-by-step, through the process of recognizing these illegal manufacturing operations. Then it shows you how to prove it in the courtroom. In non-technical language this book details: How to recognize a clandestine lab How to process the site of a clandestine lab How to analyze evidence in the examination laboratory What to derive from the physical evidence How to present the evidence in court The identification and investigation of a clandestine lab, and the successful prosecution of the perpetrators, is a team effort. A collaboration of law enforcement, forensic experts, scientists, and criminal prosecutors is required to present a case that definitively demonstrates how a group of items with legitimate uses are being used to manufacture an illegal controlled substance. Providing an understanding of how the pieces of the clandestine lab puzzle fit together, this book outlines the steps needed to identify and shut down these operations, as well as successfully prosecute the perpetrators.

Geospatial Free and Open Source Software in the 21st Century - Erwan Bocher 2012-02-22

This book contains papers presented at the first Open Source Geospatial Research Symposium held in Nantes City, France, 8-10 July, 2009. It brings together insights and ideas in the fields of Geospatial Information and Geoinformatics. It demonstrates the scientific community dynamism related to open source and free software as well as in defining new concepts, standards or tools.

Modern Arylation Methods - Lutz Ackermann 2009-04-22

Today, arylation methods are belonging to the most important reaction types in organic synthesis. Lutz Ackermann, a young and ambitious professor has gathered a number of top international authors to present the first comprehensive book on the topic. Starting from a historical review, the book covers hot topics like Palladium-catalyzed arylation of N-H and alpha-C-H-acidic Bonds, Copper-catalyzed arylation of N-H and O-H

Bonds, direct arylation reactions, carbanion aromatic synthesis, arylation reactions of alkenes, alkynes and much more. This compact source of high quality information is indispensable to synthetic chemists and those working in the pharmaceutical and chemical industry.

Near Field Communication (NFC) - Vedat Coskun 2011-12-28

This book provides the technical essentials, state-of-the-art knowledge, business ecosystem and standards of Near Field Communication (NFC) by NFC Lab – Istanbul research centre which conducts intense research on NFC technology. In this book, the authors present the contemporary research on all aspects of NFC, addressing related security aspects as well as information on various business models. In addition, the book provides comprehensive information a designer needs to design an NFC project, an analyzer needs to analyze requirements of a new NFC based system, and a programmer needs to implement an application. Furthermore, the authors introduce the technical and administrative issues related to NFC technology, standards, and global stakeholders. It also offers comprehensive information as well as use case studies for each NFC operating mode to give the usage idea behind each operating mode thoroughly. Examples of NFC application development are provided using Java technology, and security considerations are discussed in detail. Key Features: Offers a complete understanding of the NFC technology, including standards, technical essentials, operating modes, application development with Java, security and privacy, business ecosystem analysis Provides analysis, design as well as development guidance for professionals from administrative and technical perspectives Discusses methods, techniques and modelling support including UML are demonstrated with real cases Contains case studies such as payment, ticketing, social networking and remote shopping This book will be an invaluable guide for business and ecosystem analysts, project managers, mobile commerce consultants, system and application developers, mobile developers and practitioners. It will also be of interest to researchers, software engineers, computer scientists, information technology specialists including students and graduates.

Who's who in European Research and Development - 1997