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JOHNNY LANG

Integrated Biomaterials Science

Springer Science &
Business Media

Here is expert guidance on one of the most vexing clinical challenges faced by interventional cardiologists. Written by global thought leaders in the area and edited by two internationally-recognized pioneers in interventional cardiology, *Bifurcation Stenting* covers all techniques, imaging modalities, and devices in current use, including VH-IVUS and OCT. It includes practical tips/tricks from leading experts and a section of challenging cases to further illustrate the material and help readers better understand the treatment of bifurcation lesions.

Engineering Fundamentals: An Introduction to Engineering, SI Edition

Springer Science &
Business Media

Focused on central nervous system (CNS) drug discovery efforts, this book educates drug researchers about the blood-brain barrier (BBB) so they can affect

important improvements in one of the most significant – and most challenging – areas of drug discovery. • Written by world experts to provide practical solutions to increase brain penetration or minimize CNS side-effects •

Reviews state-of-the-art in silico, in vitro, and in vivo tools to assess brain penetration and advanced CNS drug delivery strategies • Covers BBB physiology, medicinal chemistry design principles, free drug hypothesis for the BBB, and transport mechanisms including passive diffusion, uptake/efflux transporters, and receptor-mediated processes • Highlights the advances in modelling BBB pharmacokinetics and dynamics relationships (PK/PD) and physiologically-based pharmacokinetics (PBPK) •

Discusses case studies of successful CNS and non-CNS drugs, lessons learned and paths to the market

From Minutes to Months
CRC Press

The large quantity of waste generated from agricultural and food production remains a great challenge and an opportunity for the food

industry. As there are numerous risks associated with waste for humans, animals and the environment, billions of dollars are spent on the treatment of agricultural and food waste.

Therefore, the utilisation of bioactive compounds isolated from waste not only could reduce the risks and the costs for treatment of waste, but also could potentially add more value for agricultural and food production. This book provides comprehensive information related to extraction and isolation of bioactive compounds from agricultural and food production waste for utilisation in the food, cosmetic and pharmaceutical industries.

The topics range from an overview on challenges and opportunities related to agricultural and food waste, the bioactive compounds in the waste, the techniques used to analyse, extract and isolate these compounds to several specific examples for potential utilisation of waste from agricultural and food industry. This book also further discusses the potential of bioactives isolated from agricultural and food waste being re-utilised in the food,

cosmetic and pharmaceutical industries. It is intended for students, academics, researchers and professionals who are interested in or associated with agricultural and food waste.

Recent Advances in Natural Products

Analysis MDPI

The fourth volume in this series consists of eleven chapters. The first five deal with more theoretical aspects of the kinetics and mechanisms of metamorphic reactions, and the next six consider the interdependence of deformation and metamorphism. All papers deal with natural processes that interact on various time scales and with different degrees of mass and heat transfer. Consequently, many fundamental axioms of metamorphic petrology and structural geology are questioned both for their accuracy and their usefulness. In raising such questions, most contributors have pointed to ways in which the answers could be forthcoming from appropriate experimental studies or observations on natural materials. In their discussion of how order/disorder can influence mineral assemblages, Carpenter and

Putnis emphasize that metastable crystal growth is common in metamorphic systems and state 'there may be some reluctance (among many earth scientists) to accept that significant departures from equilibrium could occur.' On the basis of presented evidence, they question whether reactions ever occur close to an equilibrium boundary. The necessity for pressure or temperature overstepping is also required by nucleation rate theory. In any case, the degree of order is severely influenced by these kinetic effects in igneous, sedimentary, and metamorphic environments.

Index to Scientific Reviews CRC Press

This book will provide the latest global perspective on the role and value of carbon capture and storage (CCS) in delivering temperature targets and reducing the impact of global warming. As well as providing a comprehensive, up-to-date overview of the major sources of carbon dioxide emission and negative emissions technologies, the book also discusses technical, economic and political issues associated with

CCS along with strategies to enable commercialisation.

Illinois Services

Directory Engineering Fundamentals: An

Introduction to

Engineering, SI Edition

The growing interest in

scaffolding design and

increasing research

programs dedicated to

regenerative medicine

corroborate the need for

Scaffolding in Tissue

Engineering. While certain

books and journal articles

address various aspects in

the field, this is the first

current, comprehensive

text focusing on

scaffolding for tissue

engineering. Scaffolding

in Tissue Engineering

reviews the general

principles of tissue

engineering and

concentrates on the

principles, methods, and

applications for a broad

range of tissue

engineering scaffolds. The

first section presents an

in-depth exploration of

traditional and novel

materials, including

alginates,

polysaccharides, and

fibrillar fibrin gels. The

following section covers

fabrication technologies,

discussing three-

dimensional scaffold

design, laboratory-scale

manufacture of a cell

carrier, phase separation,

self-assembly, gas foaming, solid freeform fabrication, injectable systems, and immunoisolation techniques. Subsequent chapters examine structural and functional scaffold modification, composite scaffolds, bioactive hydrogels, gene delivery, growth factors, and degradation of biodegradable polymers. The final section explores various tissue engineering applications, comprising chapters on blood cell substitutes, and tissue engineering of nerves, the tendons, ligaments, cornea, cartilage and myocardium, meniscal tissue. While providing a comprehensive summary of current knowledge and technologies, *Scaffolding in Tissue Engineering* gives readers insight into new trends and directions for scaffold development and for an ever-expanding range of tissue engineering applications. *Optimizing Brain Exposure of CNS Drugs and Minimizing Brain Side Effects for Peripheral Drugs* Cengage Learning Visualization and analysis tools, techniques, and algorithms have undergone a rapid evolution in recent decades to accommodate explosive growth in data

size and complexity and to exploit emerging multi- and many-core computational platforms. *High Performance Visualization: Enabling Extreme-Scale Scientific Insight* focuses on the subset of scientific visualization concerned with algorithm design, implementation, and optimization for use on today's largest computational platforms. The book collects some of the most seminal work in the field, including algorithms and implementations running at the highest levels of concurrency and used by scientific researchers worldwide. After introducing the fundamental concepts of parallel visualization, the book explores approaches to accelerate visualization and analysis operations on high performance computing platforms. Looking to the future and anticipating changes to computational platforms in the transition from the petascale to exascale regime, it presents the main research challenges and describes several contemporary, high performance visualization implementations. Reflecting major concepts in high performance visualization, this book

unifies a large and diverse body of computer science research, development, and practical applications. It describes the state of the art at the intersection of scientific visualization, large data, and high performance computing trends, giving readers the foundation to apply the concepts and carry out future research in this area.

Basic Transport

Phenomena in Biomedical Engineering Springer

Science & Business Media

This volume reviews the most recent knowledge in the field of gastrointestinal motility in health and disease. The topics addressed include basic as well as clinical data concerning the motor functions of the entire gut: the lower oesophageal sphincter and the gastro-oesophageal reflux; the gastric emptying and the role of the pylorus; the motility of the biliary tract and its disorders; the cyclic motor activity of the gut and intestinal transit; the colonic and ano-rectal motility. There are also important contributions in physiology and pharmacology relating to the neurohumoral regulation of the gut, and the function of digestive smooth muscle. Several

papers explore the nature of the linkage between brain and gut. a link which has long been deduced by clinicians but not, until recently, systematically explored by scientists. The individual papers, selected from a large number of submissions, have been subject to 'peer-review' by an international committee which includes both clinicians and basic scientists. Therefore this book should serve as an up to date source of information for researchers concerned with basic sciences as well as for clinicians in gastroenterology, medicine and surgery. C. Roman v This volume is dedicated to the memory of two friends and colleagues: Professor Dr J. HELLEMANS Professor Dr H. MONGES

Acknowledgments This was the 9th of this series of symposia held alternatively in Europe and North America, and the first to be held in France.

Metamorphic Reactions

John Wiley & Sons
Bringing together pathologists, clinicians and diagnostic radiologists to produce a simplified analysis and a unification of the existing concepts in the diagnosis and treatment of diffuse

lung diseases, this volume highlights pathological changes and presents the latest diagnostic modalities. Detailed therapeutic strategies are proposed based on epidemiological findings, radiographic manifestations, and the complex pathophysiological basis of each disorder. The result will appeal not only to the sophisticated practitioner but will also provide material that is sufficiently organised and didactic to be used by the young physician.

Bifurcation Stenting CRC Press

As we all know, electrons carry both charge and spin. The processing of information in conventional electronic devices is based only on the charge of electrons. Spin electronics, or spintronics, uses the spin of electrons, as well as their charge, to process information. Metals, semiconductors, and insulators are the basic materials that constitute the components of electronic devices, and these types of materials have been transforming all aspects of society for over a century. In contrast, magnetic metals, half-metals (including zero-gap half-

metals), magnetic semiconductors (including spin-gapless semiconductors), dilute magnetic semiconductors, and magnetic insulators are the materials that will form the basis for spintronic devices. This book aims to collect a range of papers on novel materials that have intriguing physical properties and numerous potential practical applications in spintronics.

Hydrogen in Intermetallic Compounds II Elsevier

Plants produce chemicals as part of their normal metabolic activities. These include primary metabolites found in all plants, such as sugars and fats, as well as secondary metabolites, which can have therapeutic effects in humans and be refined to produce drugs. Plants synthesize a bewildering variety of phytochemicals, but most are derivatives of a few biochemical motifs. Numerous herbal-derived substances have been evaluated for their therapeutic potential. These include alkaloids, coumarins, saponins, plant pigments and flavonoids. Flavonoids, carotenoids and anthocyanins are probably the best known of these substances due

to their antioxidant properties. Carotenoids: Structure and Function in the Human Body presents comprehensive coverage of carotenoids. The text covers the scientific literature and clinical significance of this organic pigment, with an emphasis on its therapeutic potential. The authors approach carotenoids from a range of perspectives, from their structural and physicochemical properties to their distribution in nature, interaction with the human metabolism, and use as a coloring agent in various products. The intake, metabolism and secretion of anthocyanins in the human body are covered in-depth, as are the biosynthetic pathways through which these compounds are synthesized in the natural system. Factors affecting stability and extraction are listed, and health-related uses and biological activities are covered in great detail. Present and future trends in carotenoid research are also presented. This book provides a solid background in carotenoids for researchers and professionals in food science, food technology, nutrition, biology,

chemistry and medical sciences. Physics and Materials Properties Springer Science & Business Media Praise for Introductory Raman Spectroscopy Highlights basic theory, which is treated in an introductory fashion Presents state-of-the-art instrumentation Discusses new applications of Raman spectroscopy in industry and research **Optical Coherence Tomography in Age-Related Macular Degeneration** Springer Science & Business Media A comprehensive guide for trainee embryologists and medical students in the specialized techniques and technology of assisted reproduction. *Enabling Extreme-Scale Scientific Insight* Springer *Vibrio parahaemolyticus* are common causes of diarrhoeal disease worldwide. These marine micro-organisms, native in estuarine waters globally, concentrate in the gut of filter-feeding molluscan shellfish, such as oysters, clams and mussels. Raw and undercooked seafood, including finfish, represent the principal vehicle of transmission to humans. This volume considers the applicability of an assessment of the

public health impact of raw oyster consumption, developed in one country, to assess the public health risk associated with the consumption of raw oysters harvested in other countries where different growing and harvesting scenarios might exist. The approach is also applied to bloody clams and finfish to establish if such a risk assessment can also be adapted to other types of shellfish and finfish. This work is therefore divided in three parts focusing on (i) risk assessment of *Vibrio parahaemolyticus* in raw oysters, (ii) risk assessment of *Vibrio parahaemolyticus* in bloody clam and (iii) risk assessment of *Vibrio parahaemolyticus* in finfish. As well as providing insights on the risks associated with consumption of these commodities, the work also addresses how to make maximum use of existing and/or limited resources. This volume and others in the Microbiological Risk Assessment Series contain information that is useful to both risk assessors and risk managers, including international scientific committees, the Codex Alimentarius Commission,

governments and food regulatory agencies, scientists, food producers and industries and other people or institutions with an interest in the area of microbiological hazards in foods, their impact on human health and food trade and their control.

Nanoparticle Technology Handbook Springer Science & Business Media

This book discusses fundamentals of nanostructured ceramics involving functional, structural and high temperature materials. It provides both solved numerical problems and unsolved problems to enable the reader to envisage the correlation between synthesis process and properties in the perspective of new material development. It serves as a concise text to answer the basics and achieve research goals for academia and industry.

Key Features Deals with basic strategy on data interpretation for nanostructured ceramics

Proposes to bridge the gap between the nano and bulk properties of nanostructured ceramics

Discusses brief schematics and equations to understand the different properties of nano to bulk ceramics

Presents mode of data

acquisition and interpretation through statistical module and solved numerical Includes unsolved numericals based on properties, data acquisition and interpretation

Nanostructured Ceramics Academic Press

Currently, hemoglobin (Hb)-based oxygen carriers (HBOCs) are leading candidates as red blood cell substitutes. In addition, HBOCs are also potential oxygen therapeutics for treatment of patients with critical ischemic conditions due to atherosclerosis, diabetes and other conditions. This book will provide readers a comprehensive review of topics involved in the HBOC development. It focusses on current products and clinical applications as well as on emerging technologies and future prospects.

A Textbook of Clinical Embryology Springer Science & Business Media

Rehabilitation is, by definition, the restoration of optimal form and function for an athlete. In this edition in the Encyclopedia series, the editor and contributors advocate that rehabilitation should begin as soon as possible after their injury occurs,

alongside therapeutic measures such as anti-inflammatories and other pain killing agents. This might also begin before, or immediately after, surgery. The rehabilitative process is therefore managed by a multi-disciplinary team, including physicians, physiotherapists, psychologists, nutritionists, and athletic trainers, amongst others. This book considers the three phases of rehabilitation: pain relief, protection of the affected area and limitation of tissue damage; limitation of impairment and recovery of flexibility, strength, endurance, balance and co-ordination; and finally the start of conditioning to return to training and competition.

Proceedings of the 9th International Symposium on Gastrointestinal Motility held in Aix-en-Provence, France, September 12-16, 1983 CRC Press

This book is a printed edition of the Special Issue "Nutrition and Liver Disease" that was published in *Nutrients*

Effects of Climate Change Across Ocean Regions CRC Press

Nanoparticle technology, which handles the

preparation, processing, application and characterisation of nanoparticles, is a new and revolutionary technology. It becomes the core of nanotechnology as an extension of the conventional Fine Particle / Powder Technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, Drug Delivery System, biotechnology, etc.; and makes use of the unique properties of the nanoparticles which are completely different from those of the bulk

materials. This new handbook is the first to explain complete aspects of nanoparticles with many application examples showing their advantages and advanced development. There are handbooks which briefly mention the nanosized particles or their related applications, but no handbook describing the complete aspects of nanoparticles has been published so far. The handbook elucidates of the basic properties of nanoparticles and various nanostructural materials with their characterisation methods in the first part. It also introduces more than 40 examples of practical and potential uses of nanoparticles in the later part dealing with applications. It is intended to give readers a clear

picture of nanoparticles as well as new ideas or hints on their applications to create new materials or to improve the performance of the advanced functional materials developed with the nanoparticles. * Introduces all aspects of nanoparticle technology, from the fundamentals to applications. * Includes basic information on the preparation through to the characterization of nanoparticles from various viewpoints * Includes information on nanostructures, which play an important role in practical applications.
High Performance Visualization Cambridge University Press
 Includes annual cumulative index of inventors and patentees.

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