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Computational Plasticity Springer Nature
The special edition of the journal Key Engineering Materials contains papers that were presented to the 58th International Conference of Materials Science and Applied Chemistry (MSAC 2017, 20th October, 2017, Riga, Latvia). The main objective of this collection is to present the latest scientific findings obtained in the fields of materials science and chemistry.

Principles of Flight Simulation BoD – Books on Demand
This edited book focusses on green chemistry as the research community endeavours to create eco-friendly materials and technologies. It provides an in-depth overview of the fundamentals, key concepts and experimental techniques for eco-friendly synthesis of organic compounds and metal/metal oxide nanoparticles/nanomaterials. It also emphasizes the mechanisms, designing and industrial technologies for green synthesis and its applications. Each chapter brings the recent developments, state of the art, challenges and perspectives which cover all the aspects in one place, and which concern the green synthesis and evolution. Authored by world-renowned experts in a broad range of green chemistry sectors, this book is an archival reference guide for researchers, engineers, scientists and postgraduates working in the field of sustainable science, green chemistry, environmental science, engineering sciences and industrial technologies.

Hemoglobin-Based Oxygen Carriers as Red Cell Substitutes and Oxygen Therapeutics Springer Nature
Neurology – as only Harrison's can cover it Featuring a superb compilation of chapters related to neurology that appear in Harrison's Principles of Internal Medicine, Eighteenth Edition, this concise, full-color clinical companion delivers the latest knowledge in the field backed by the scientific rigor and authority that have defined Harrison's. You will find content from renowned editors and contributors in a carry-anywhere presentation that is ideal for the classroom, clinic, ward, or exam/certification preparation. Features Current, complete coverage of clinically important topics in neurology, including Clinical Manifestations of Neurologic Diseases, Diseases of the Nervous System, Chronic Fatigue Syndrome, Psychiatric Disorders, and Alcoholism and Drug Dependency NEW CHAPTERS discuss the pathogenesis and treatment and syncope; dizziness and vertigo; peripheral neuropathy; neuropsychiatric problems among war veterans; and advances in deciphering the pathogenesis of common psychiatric disorders Integration of pathophysiology with clinical management 118 high-yield questions and answers drawn from Harrison's Principles of Internal Medicine Self-Assessment and Board Review, 18e Content updates and new developments since the publication of Harrison's Principles of Internal Medicine, 18e 58 chapters written by physicians who are recognized experts in the field of clinical neurology Helpful appendix of laboratory values of clinical importance

The Modern Poster Springer
This reference work provides comprehensive information about the bioactive molecules presented in our daily food and their effect on the physical and mental state of our body. Although the concept of functional food is new, the consumption of selected food to attain a specific effect existed already in ancient civilizations, namely of China and India. Consumers are now more attentive to food quality, safety and health benefits, and the food industry is led to develop processed- and packaged-food, particularly in terms of calories, quality, nutritional value and bioactive molecules. This book covers the entire range of bioactive molecules presented in daily food, such as carbohydrates, proteins, lipids, isoflavonoids, carotenoids, vitamin C, polyphenols, bioactive molecules presented in wine, beer and cider. Concepts like French paradox, Mediterranean diet, healthy diet of eating fruits and vegetables, vegan and vegetarian diet, functional foods are described with suitable case studies. Readers will also discover a very timely compilation of methods for bioactive molecules analysis. Written by highly renowned scientists of the field, this reference work appeals to a wide readership, from graduate students, scholars, researchers in the field of botany, agriculture, pharmacy, biotechnology and food industry to those involved in manufacturing, processing and marketing of value-added food products.

Structural Economic Dynamics Springer Science & Business Media
This book comprises select proceedings of the International Conference on Emerging Trends in Mechanical Engineering (ICETME 2018). The book covers various topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as industry professionals.

4th International Conference on Nanotechnologies and Biomedical Engineering Springer
The thesis provides the necessary experimental and analytical tools to unambiguously observe the atomically resolved chemical reactions. A great challenge of modern science has been to directly observe atomic motions during structural transitions, and while this was first achieved through a major advance in electron source brightness, the information content was still limited and new methods for image reconstruction using femtosecond electron diffraction methods were needed. One particular challenge lay in reconciling the innumerable possible nuclear configurations with the observation of chemical reaction mechanisms that reproducibly give the same kind of chemistry for large classes of molecules. The author shows that there is a simple solution that occurs during barrier crossing in which the highly anharmonic potential at that point in nuclear rearrangements couples high- and low-frequency vibrational modes to give highly localized nuclear motions, reducing hundreds of potential degrees of freedom to just a few key modes.

Specific examples are given in this thesis, including two photoinduced phase transitions in an organic system, a ring closure reaction, and two direct observations of nuclear reorganization driven by spin transitions. The emerging field of structural dynamics promises to change the way we think about the physics of chemistry and this thesis provides tools to make it happen. Springer

The mammalian genome is constantly challenged by exogenous and endogenous threats. Although much is known about the mechanisms that maintain genome integrity, little is known about the applications of this knowledge to combat human disease. The past 20 years has witnessed extensive research and progress in this area and scientists started to design new therapies harnessing individual genetic differences among patients to combat degenerative disorders and cancer. We summarize these advancements and discuss perspectives for the future of personalized medicine.

Cancer Control Springer Nature

This book contains 14 invited contributions written by distinguished authors who participated in the VIII International Conference on Computational Plasticity held at CIMNE/UPC (www.cimne.com) from 5-8 September 2005, in Barcelona, Spain. The chapters present recent progress and future research directions in the field of computational plasticity.

Soft Actuators John Wiley & Sons

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.

Bioactive Molecules in Food McGraw Hill Professional

Third edition of the best-selling Cambridge English: First (FCE) course. The syllabus for this exam has changed and this book has now been replaced by 9781107628304 Objective First Fourth edition Student's Book with answers with CD-ROM.

High Temperature Polymer Electrolyte Membrane Fuel Cells Cambridge University Press

This book is a theoretical investigation of the influence of human learning on the development through time of a 'pure labour' economy. The theory proposed is a simple one, but aims to grasp the essential features of all industrial economies. Economists have long known that two basic phenomena lie at the root of long-term economic movements in industrial societies: capital accumulation and technical progress. Attention has been concentrated on the former. In this book, by contrast, technical progress is assigned the central role. Within a multi-sector framework, the author examines the structural dynamics of prices, production and employment (implied by differentiated rates of productivity growth and expansion of demand) against a background of 'natural' relations. He also considers a number of institutional problems. Institutional and social learning, know-how, and the diffusion of knowledge emerge as the decisive factors accounting for the success and failure of industrial societies.

Materials Science and Applied Chemistry Springer

'Mechanotransduction' is the term for the ability, first described by 19th-century anatomist Julius Wolff, of living tissues to sense mechanical stress and respond by tissue remodeling. More recently, the scope of mechanotransduction has been expanded to include the sensation of stress, its translation into a biochemical signal, and the sequence of biological responses it produces. This book looks at mechanotransduction in a more restricted sense, focusing on the process of stress sensing and transducing a mechanical force into a cascade of biochemical signals. This stress has become increasingly recognized as one of the primary and essential factors controlling biological functions, ultimately affecting the function of the cells, tissues, and organs. A primary goal of this broad book is also to help define the new field of mechanomics, which attempts to describe the complete mechanical state of a biological system.

Nanocatalysis Academic Press

Focusing on a variety of coatings, this book provides detailed discussion on preparation, novel techniques, recent developments, and design theories to present the advantages of each function and provide the tools for better product performance and properties. • Presents advantages and benefits of properties and applications of the novel coating types • Includes chapters on specific and novel coatings, like nanocomposite, surface wettability tunable, stimuli-responsive, anti-fouling, antibacterial, self-healing, and structural coloring • Provides detailed discussion on recent developments in the field as well as current and future perspectives • Acts as a guide for polymer and materials researchers in optimizing polymer coating properties and increasing product performance

Introduction to Instrumentation and Measurements Pearson South Africa

This Special Issue of Marine Drugs gathers recent investigations on the proteomes, metabolomes, transcriptomes, and the associated microbiomes of marine jellyfish and polyps, including bioactivity studies of their compounds and more generally, on their biotechnological potential, witnessing the increasingly recognized importance of Cnidaria as a largely untapped Blue Growth resource for new drug discovery. These researches evoke the outstanding ecological importance of cnidarians in marine ecosystems worldwide, calling for a global monitoring and conservation of marine biodiversity, so that the biotechnological exploitation of marine living resources will be carried out to conserve and sustainably use the natural capital of the oceans.

FCS Marketing L4 Springer Nature

Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of Introduction to Instrumentation and Measurements uses the authors ' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What ' s New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

Chemistry in Action: Making Molecular Movies with Ultrafast Electron Diffraction and Data Science Humana Press

Erik Wischerhoff, Nezha Badi, Andr é Laschewsky and Jean-Fran ç ois Lutz Smart Polymer Surfaces: Concepts and Applications in Biosciences; S.

Petersen, M. Gattermayer and M. Biesalski Hold on at the Right Spot: Bioactive Surfaces for the Design of Live-Cell Micropatterns; Julien Polleux Interfacing Cell Surface Receptors to Hybrid Nanopatterned Surfaces: A Molecular Approach for Dissecting the Adhesion Machinery; Abigail Pulsipher and Muhammad N. Yousaf Self-Assembled Monolayers as Dynamic Model Substrates for Cell Biology; D. Volodkin, A. Skirtach and H. M ö hwald LbL Films as Reservoirs for Bioactive Molecules; R. Gentsch and H. G. B ö rner Designing Three-Dimensional Materials at the Interface to Biology; Joerg C. Tiller Antimicrobial Surfaces;

Elements of Fiction Writing - Conflict and Suspense CRC Press

"This book is designed to help students organize their thinking about psychology at a conceptual level. The focus on behaviour and empiricism has produced a text that is better organized, has fewer chapters, and is somewhat shorter than many of the leading books. The beginning of each section includes learning objectives; throughout the body of each section are key terms in bold followed by their definitions in italics; key takeaways, and exercises and critical thinking activities end each section"--BCcampus website.

The Commonwealth of Oceana Springer

Activation, inhibition, or destruction of the nervous system or its component parts as a vital tool for the investigation of function has undergone remarkable development; indeed, new approaches have been developed that allow for these actions to be used as therapeutic tools. In Stimulation and Inhibition of Neurons, experts in the field provide an overview of modern methods for generating lesions as well as for stimulating and inhibiting neural pathways. Many new techniques such as optogenetics and the use of the in situ perfused preparation are examined, while, in other sections, the use and validity of more well-known approaches are reassessed. Written for the Neuromethods series, chapters examine their respective topics thoroughly and include the kind of detail and implementation advice that ensures successful results in the laboratory. Authoritative and cutting-edge, Stimulation and Inhibition of Neurons serves as an ideal guide for researchers seeking to gain further knowledge of the complex functions of the brain.

Bioactive Surfaces Oxford University Press

Special Topics in Structural Dynamics, Volume 6: Proceedings of the 31st IMAC, A Conference and Exposition on Structural Dynamics, 2013, the sixth volume of seven from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics, including papers on: Teaching Experimental & Analytical Structural Dynamics Sensors & Instrumentation Aircraft/Aerospace Bio-Dynamics Sports Equipment Dynamics Advanced ODS & Stress Estimation Shock & Vibration Full-Field Optical Measurements & Image Analysis Structural Health Monitoring Operational Modal Analysis Wind Turbine Dynamics Rotating Machinery Finite Element Methods Energy Harvesting

Emerging Trends in Mechanical Engineering Penguin

This book features the latest advances and future trends in water science and technology. It also discusses the scientific popularization and quantitative resolution of a variety of mysterious properties of water and ice from the perspective of hydrogen-bond cooperativity in response to stimuli such as chemical contamination, electrification, magnetification, mechanical compression, molecular undercoordination, and thermal excitation. Anomalies include the floating of ice, the Hofmeister effect in solutions, regelation of ice, slipperiness of ice, water ' s tough skin, the Mpemba paradox, and the floating bridge. It also addresses the superfluidity of microchannels, hydrogen bond potentials, nanodroplet and bubble thermodynamics, quasisolidity and supersolidity, controlling superhydrophobicity – superhydrophilicity transition, and high-pressure ice formation. The target audience for this book includes students, senior scholars, engineers and practitioners in the area of physical chemistry, biology, as well as aqueous and colloid solutions.