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Neutron Crystallography in Structural Biology- 2020-02-22 Neutron Crystallography in Structural Biology, Volume 634, the latest volume in the Methods in Enzymology series, continues the legacy of this premier serial with quality chapters authored by leaders in the field. Chapters in this updated release include Fundamentals of neutron crystallography in structural biology, Large crystal growth for neutron protein crystallography, Prospects for membrane protein crystals in NMX, IMAGINE: The neutron protein crystallography beamline at the high flux isotope reactor, The macromolecular neutron diffractometer at the spallation neutron source, Current status and near future plan of neutron protein crystallography at J-PARC, Neutron macromolecular crystallography at the European spallation source, and much more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Includes the latest information on neutron crystallography in structural biology

The SBL Handbook of Style-ed ALEXANDER 1999 The "one-stop" reference for authors preparing manuscripts in biblical studies and related fields.

Thomas Register of American Manufacturers- 2002 This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

It's Okay If You Don't Like Surfing It's Kind Of A Smart People Thing Anyway-Unixx Publishing 2019-04-18 This Surfing notebook / Journal makes an excellent gift for any occasion . Lined - Size: 6 x 9" - Notebook - Journal - Planner - Dairy - 110 Pages - Classic White Lined Paper - For Writing, Sketching, Journals and Hand Lettering

Michigan Manual of Plastic Surgery-David L. Brown 2014-04-09 The first and only pocket-sized, practical manual on plastic surgery, The Michigan Manual of Plastic Surgery is written by residents in the University of Michigan's renowned plastic surgery training program. This multidisciplinary review features contributions from senior residents in related fields including general surgery, oral and maxillofacial surgery, otolaryngology, orthopaedics, neurosurgery, and urology. Features: Easy-to-follow outline format covers the full range of clinical problems commonly encountered by plastic surgeons. Core content addresses fundamental principles and techniques, skin and soft tissue lesions, head and neck, facial reconstruction, craniofacial, aesthetic surgery, breast, hand and upper extremities, trunk, lower extremities, genitalia, and burns. Interdisciplinary versatility makes the handbook ideal for medical students and surgical residents seeking clinical consultations and pre-, intra-, and postoperative care. Additionally, the review provides a quick consult for practitioners whose work interacts with plastic and reconstructive surgery, as well as for those preparing for the in-service and written board examinations. NEW to the Second Edition... New full-color illustrations improve visual learning and enhance retention of key concepts. Carefully selected topics correspond to topics on plastic surgery in-service and specialty Board examinations. Helpful icons highlight material covered on the In-Service Board Exam.

Herbicides-Andrew Price 2013-05-29 Herbicides represent one of the most widely used groups of pesticides worldwide for control of weed species in agricultural and non-crop settings. Due to the extensive use of herbicides and their value in weed management, herbicide research remains crucial for ensuring continued, effective use of herbicides while minimizing detrimental effects to ecosystems. Presently, a wide range of research continues to focus on improved herbicide use, environmental impact of herbicides, and even medicinal application of herbicide chemistries. In Herbicides - Advances in Research, authors cover multiple topics concerning current, valuable herbicide research.

The Developing Person Through the Life Span-Kathleen Stassen Berger 2009-04-16

The Tractor in the Haystack-Scott Garvey For the aficionado of farm equipment, or the scion of an old farming family nostalgic for the old days, or the grown-up boy who still loves a classic piece of old-time machinery, the vintage tractor can be a thrilling find like no other. This book tells dozens of stories of such discoveries, of the treasured old tractor parked in a shed since 1927, of the pristine model unearthed at an estate sale, of the broken-down old beauty stashed in a barn where generations of children have made their secret hideaways. These are the classic tractors that are often as hard to find as a needle in a haystack—but far more fun to discover, as all of these delightful stories make abundantly clear.

Kidney Development and Disease-Rachel K. Miller 2017-04-13 Kidney Development and Disease brings together established and young investigators who are leading authorities in nephrology to describe recent advances in three primary areas of research. The first section describes the use of animal models as powerful tools for the discovery of numerous molecular mechanisms regulating kidney development. The second section focuses on nephric cell renewal and differentiation, which lead to diverse cell fates within the developing kidney, and discusses diseases resulting from the aberrant regulation of the balance between cell fate decisions. The final section concentrates on morphogenesis of the developing kidney and its maintenance after formation as well as the diseases resulting from failures in these processes. Kidney form and function have been extensively studied for centuries, leading to discoveries related to their development and disease. Recent scientific advances in molecular and imaging techniques have broadened our understanding of nephron development and maintenance as well as the diseases related to these processes.

Mechanica-Betsy Cornwell 2015-08-25 A New York Times Bestseller Nicolette's awful stepsisters call her "Mechanica" to demean her, but the nickname fits: she learned to be an inventor at her mother's knee. Her mom is gone now, though, and the Steps have pushed her into a life of dreary servitude. When she discovers a secret workshop in the cellar on her sixteenth birthday—and befriends Jules, a tiny magical metal horse—Nicolette starts to imagine a new life for herself. And the timing may be perfect: There's a technological exposition and a royal ball on the horizon. Determined to invent her own happily-ever-after, Mechanica seeks to wow the prince and eager entrepreneurs alike.

Ignition Systems for Gasoline Engines-Michael Günther 2016-11-18 The volume includes selected and reviewed papers from the 3rd Conference on Ignition Systems for Gasoline Engines in Berlin in November 2016. Experts from industry and universities discuss in their papers the challenges to ignition systems in providing reliable, precise ignition in the light of a wide spread in mixture quality, high exhaust gas recirculation rates and high cylinder pressures. Classic spark plug ignition as well as alternative ignition systems are assessed, the ignition system being one of the key technologies to further optimizing the gasoline engine.

Simulation and Testing for Vehicle Technology-Clemens Gühmann 2016-05-17 The book includes contributions on the latest model-based methods for the development of personal and commercial vehicle control devices. The main topics treated are: application of simulation and model design to development of driver assistance systems; physical and database model design for engines, motors, powertrain, undercarriage and the whole vehicle; new simulation tools, methods and optimization processes; applications of simulation in function and software development; function and software testing using HiL, MiL and SiL simulation; application of simulation and optimization in application of control devices; automation approaches at all stages of the development process.

The SBL Handbook of Style-Society of Biblical Literature 2014-11-20 The definitive source for how to write and publish in the field of biblical studies The long-awaited second edition of the essential style manual for writing and publishing in biblical studies and related fields includes key style changes, updated and expanded abbreviation and spelling-sample lists, a list of archaeological site names, material on Qur'anic sources, detailed information on citing electronic sources, and expanded guidelines for the transliteration and transcription of seventeen ancient languages. Features: Expanded lists of abbreviations for use in ancient Near Eastern, biblical, and early Christian studies Information for transliterating seventeen ancient languages Exhaustive examples for citing print and electronic sources

Basic Computer Games-David H. Ahl 1981

Security Owner's Stock Guide-Standard and Poor's Corporation 2002-02

Dynamics of Multibody Systems-Robert E. Roberson 2012-12-06 Multibody systems are the appropriate models for predicting and evaluating performance of a variety of dynamical systems such as spacecraft, vehicles, mechanisms, robots or biomechanical systems. This book addresses the general problem of analysing the behaviour of such multibody systems by digital simulation. This implies that pre-computer analytical methods for deriving the system equations must be replaced by systematic computer oriented formalisms, which can be translated conveniently into efficient computer codes for - generating the system equations based on simple user data describing the system model - solving those complex equations yielding results ready for design evaluation. Emphasis is on computer based derivation of the system equations thus freeing the user from the time consuming and error-prone task of developing equations of motion for various

problems again and again.

Catalogue de la Bibliothèque Des Archives Publiques-Public Archives Canada. Library 1979

Driveline Systems of Ground Vehicles-Alexandr F. Andreev 2010-01-29 "With this book, Prof. Dr. Vantsevich brings a tremendous contribution to the field of Automotive Transmission and Driveline Engineering, including his innovative methods for optimum driveline synthesis, as well as his experience with the development of various hardware solutions, from the basic limited slip differentials to the most sophisticated mechatronic systems." —Dr.-Ing. Mircea Gradu Director, Transmission and Driveline Engineering Head, Virtual Analysis Tools Chrysler Group LLC Now that vehicles with four and more driving wheels are firmly ensconced in the consumer market, they must provide energy/fuel-saving benefits and improved operational quality including terrain mobility, traction and velocity properties, turnability, and stability of motion. A first-of-its-kind resource, *Driveline Systems of Ground Vehicles: Theory and Design* presents a comprehensive and analytical treatment of driveline research, design, and tests based on energy efficiency, vehicle dynamics, and operational properties requirements. This volume addresses fundamental engineering problems including how to investigate the effect of different driveline systems on the properties of vehicles and how to determine the optimal characteristics of the driveline system and its power-dividing units (PDUs) and design it for a specific vehicle to ensure high level of vehicle dynamics, energy efficiency, and performance. The authors develop an analytical apparatus for math modeling of driveline systems that can be compiled from different types of PDUs. They also introduce methodologies for the synthesis of optimal characteristics of PDUs for different types of vehicles. Structured to be useful to engineers of all levels of experience, university professors and graduate students, the book is based on the R&D projects conducted by the authors. It explores intriguing engineering dilemmas such as how to achieve higher energy and fuel efficiency by driving either all the wheels or not all the wheels, solve oversteering issues by managing wheel power distribution, and many other technical problems.

Arts & Humanities Citation Index- 1979

Calcium Signaling-Md. Shahidul Islam 2019-10-23 This volume contains a unique selection of chapters covering a wealth of contemporary topics in this ubiquitous and diverse system of cell signaling. It offers much more than the accessibility and authority of a primary text book, exploring topics ranging from the fundamental aspects of calcium signaling to its varied clinical implications. It presents comprehensive discussion of cutting-edge research alongside detailed analysis of critical issues, at the same time as setting out testable hypotheses that point the way to future scientific endeavors. The contributions feature material on theoretical and methodological topics as well as related subjects including mathematical modeling and simulations. They examine calcium signaling in a host of contexts, from mammalian cells to bacteria, fruit fly and zebrafish. With much of interest to newcomers to the field as well as seasoned experts, this new publication is both wide-ranging and authoritative. The chapter "Calcium Signaling: From Basic to Bedside" is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](http://link.springer.com).

Equilibrium Staged Separations-Phillip C. Wankat 2007

Separation Process Engineering-Phillip C. Wankat 2012 The Definitive, Fully Updated Guide to Separation Process Engineering—Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering, Third Edition, is the most comprehensive, accessible guide available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data—including up-to-date simulation practice and new spreadsheet-based exercises. Wankat thoroughly covers each of today's leading approaches, including flash, column, and batch distillation; exact calculations and shortcut methods for multicomponent distillation; staged and packed column design; absorption; stripping; and more. In this edition, he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption separations (adsorption, chromatography, and ion exchange). Updated with new techniques and references throughout, Separation Process Engineering, Third Edition, also contains more than 300 new homework problems, each tested in the author's Purdue University classes. Coverage includes Modular, up-to-date process simulation examples and homework problems, based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion, including both Fickian and Maxwell-Stefan approaches Detailed discussions of liquid-liquid extraction, including McCabe-Thiele, triangle and computer simulation analyses; mixer-settler design; Karr columns; and related mass transfer analyses Thorough introductions to adsorption, chromatography, and ion exchange—designed to prepare students for advanced work in these areas Complete coverage of membrane separations, including gas permeation, reverse osmosis, ultrafiltration, pervaporation, and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation, diffusion, mass transfer, and membrane separation

RNA Purification and Analysis-Douglas T. Gjerde 2009-07-10 This first book on the market covers the many new and important RNA species discovered over the past five years, explaining current methods for the enrichment, separation and purification of these novel RNAs. Building up from general principles of RNA biochemistry and biophysics, this book addresses the practical aspects relevant to the laboratory researcher throughout, while discussing the performance and potential problems of the methods discussed. An appendix contains a glossary with the important terms and techniques used in RNA analysis. By explaining the basic and working principles of the methods, the book allows biochemists and molecular biologists to gain much more expertise than by simply repeating a pre-formulated protocol, enabling them to select the procedure and materials best suited to the RNA analysis task at hand. As a result, they will be able to develop new protocols where needed and optimize and fine-tune the general purpose standard protocols that come with the purification equipment and instrumentation.

Monthly Index of Russian Accessions- 1961

Monthly List of Russian Accessions-Library of Congress. Processing Department 1960-12

Handbook of Intelligent Vehicles-Azim Eskandarian 2012-02-26 The Handbook of Intelligent Vehicles provides a complete coverage of the fundamentals, new technologies, and sub-areas essential to the development of intelligent vehicles; it also includes advances made to date, challenges, and future trends. Significant strides in the field have been made to date; however, so far there has been no single book or volume which captures these advances in a comprehensive format, addressing all essential components and subspecialties of intelligent vehicles, as this book does. Since the intended users are engineering practitioners, as well as researchers and graduate students, the book chapters do not only cover fundamentals, methods, and algorithms but also include how software/hardware are implemented, and demonstrate the advances along with their present challenges. Research at both component and systems levels are required to advance the functionality of intelligent vehicles. This volume covers both of these aspects in addition to the fundamentals listed above.

The Biodiesel Handbook-Gerhard Knothe 2015-08-13 The second edition of this invaluable handbook covers converting vegetable oils, animal fats, and used oils into biodiesel fuel. The Biodiesel Handbook delivers solutions to issues associated with biodiesel feedstocks, production issues, quality control, viscosity, stability, applications, emissions, and other environmental impacts, as well as the status of the biodiesel industry worldwide. Incorporates the major research and other developments in the world of biodiesel in a comprehensive and practical format Includes reference materials and tables on biodiesel standards, unit conversions, and technical details in four appendices Presents details on other uses of biodiesel and other alternative diesel fuels from oils and fats

Freiburger Zeitschrift für Philosophie und Theologie- 1959

The British Journal of Photography- 2001

Arc Plasma Technology in Materials Science-Dennis A. Gerdeman 2012-12-06 Although a considerable amount of information concerning the applications for arc plasmas in the materials sciences is available, it is contained in literally thousands of separate manuals, technical notes, textbooks, and government and industrial reports. Each source generally deals with only one specific application or, at best, a narrow range of utilization. This book was developed to provide a comprehensive and up-to-date compilation of information in the technology of arc plasma utilization. The book is divided into two general categories: flame spraying and materials evaluation. In the flame spraying section a comprehensive review of the plasma spraying process is presented. The design and operation of plasma spraying equipment are described. Included are a description of the nature of a plasma, and the design and operation of plasma generators, powder feed systems and accessory control equipment. The general process procedures, and associated process variables are described. Particular emphasis is given to the particle heating process and the mechanisms for adherence and cohesion of coatings. Competitive flame spraying equipment is also detailed (combustion process, detonation and electric arc) and compared with the plasma spray process. A discussion and compilation of flame sprayed ceramic and metal materials, their properties and applications are also included.

ICAME 2005-P.-E. Lippens 2007-12-10 This book provides an up-to-date overview of the Mössbauer effect in physics, chemistry, electrochemistry, catalysis, biology, medicine, geology, mineralogy, archaeology and materials science. Coverage details the most recent developments of the technique especially in the fields of nanoparticles, thin films, surfaces, interfaces, magnetism, experimentation, theory, medical and industrial applications and Mars exploration.

Zeolites in Industrial Separation and Catalysis-Santi Kulprathipanja 2010-01-26 This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three capacities. Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts, this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes. The first part of the book discusses the history and chemistry of zeolites, while the second section focuses on separation processes. The third and final section treats zeolites in the field of catalysis. The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent, a membrane and as a catalyst, while also discussing their impact within the industry.

Microbial Biosorption of Metals-Pavel Kotrba 2011-01-13 Heavy metals always pose serious ecological risks when released into the environment due to their elemental non-degradable nature, regardless of their chemical form. This calls for the development of efficient and low-cost effluent treatment and metal recuperation technologies for contaminated waste water, not only because regulatory limits need to be met but also because the waste itself can be a resource for certain precious metals. Biosorption is a general property of living and dead biomass to rapidly bind and abiotically concentrate inorganic or organic compounds from even very diluted aqueous solutions. As a specific term, biosorption is a method that utilizes materials of biological origin - biosorbents formulated from non-living biomass - for the removal of target substances from aqueous solutions. Recent research on biosorption provides a solid understanding of the mechanism underlying microbial biosorption of heavy metals and related elements. This book gathers review articles analyzing current views on the mechanism and (bio)chemistry of biosorption, the performance of bacterial, fungal and algal biomass, and the practical aspects of biosorbent preparation and engineering. It also reviews the physico-chemical evaluations of biosorbents and modelling of the process as well as the importance of biosorption during heavy metal removal using living cells. It is a reference work for scientists, environmental safety engineers and R&D specialists who wish to further promote biosorption research and use the accumulated knowledge to develop and build industrial applications of biosorption in heavy metal separation technologies.

Mechanizace, automatizace administrativy- 1984

Proceedings of the International Conference on Health Care Systems Engineering-Andrea Matta 2013-11-20 The International Conference on Health Care Systems Engineering (HCSE) provided a timely opportunity to discuss statistical analysis and operations management issues in health care delivery systems. The conference took place in Milan between May 22nd and 24th, 2013. Scientists and practitioners discussed new ideas, methods and technologies for improving the operation of health care organizations. The event and this resulting volume emphasize research in the field of health care systems engineering developed in close collaboration with clinicians. Topics applicable to researchers and practitioners include: hospital drug logistics, operating theatres, modelling and simulation in patient care and healthcare organizations, home care services.

X-Ray Crystallography of Biomacromolecules-Albrecht Messerschmidt 2007-02-27 Written by one of the most significant contributors to the progress of protein crystallography, this practical guide contains case studies, a troubleshooting section and pointers on data interpretation. It covers the theory, practice and latest achievements in x-ray crystallography, such that any researcher in structural biology will benefit from this extremely clearly written book. Part A covers the theoretical basis and such experimental techniques as principles of x-ray diffraction, solutions for the phase problem and time-resolved x-ray crystallography. Part B includes case studies for different kinds of x-ray crystal structure determination, such as the MIRAS and MAD techniques, molecular replacement, and the difference Fourier technique.

Nucleic Acid Crystallography-Eric Ennifar 2015-07-31 This volume includes comprehensive and up-to-date coverage of all nucleic-acid-specific steps used in X-ray crystallography, from macromolecule production to structure determination. Chapters dedicated to RNA preparation and crystallogenesis will be of interest to beginners, while chapters focused on data collection, phasing and refinement will be particularly useful to researchers with a higher level of expertise.

Several functional case studies are also presented in the last part of the book. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and thorough, Nucleic Acid Crystallography: Methods and Protocols presents protocols that are aimed at both researchers and students who are interested in the structural biology of DNA or RNA, alone or in complex with proteins or ligands.

SCR Manual-D. R. Grafham 1979 The SCR has grown to be the most prominent semiconductor device for static power conversion and control.

Environmental Engineering Dictionary and Directory-Thomas M. Pankratz 2000-09-22 Like most technical disciplines, environmental science and engineering is becoming increasingly specialized. As industry professionals focus on specific environmental subjects they become less familiar with environmental problems and solutions outside their area of expertise. This situation is compounded by the fact that many environmental science related terms are confusing. Prefixes such as bio-, enviro-, hydra-, and hydro- are used so frequently that it is often hard to tell the words apart. The Environmental Engineering Dictionary and Directory gives you a complete list of brand terms, brand names, and trademarks - right at your fingertips.

Bioinformatics-Jonathan M. Keith 2008 In these 2 volumes, leading researchers in the field provide a selection of the most useful and widely applicable methods, able to be applied as is, or with minor variations, to many specific problems. Volume I: Data, Sequence Analysis and Evolution examines a selection of methods involving the generation and organization of data, including sequence data, RNA and protein structures, microarray expression data and functional annotations, methods for discovering the functional components of genomes, whether they be genes, alternative splice sites, non-coding RNAs or regulatory motifs, and several of the most interesting methods in phylogenetics and evolution. Volume II: Structure, Function and Applications contains methods pertinent to the prediction of protein and RNA structures and the analysis and classification of structures, methods for inferring the function of previously identified genomic elements, chiefly protein-coding genes, medical applications in diagnostics and dr.

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