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A Malayalam and English Dictionary Springer

This postwar report provides information on each type of mine used by the Kriegsmarine during World War II, with highly detailed line drawings. An essential reference for understanding this under-appreciated aspect of World War II at sea. High-quality color interior printing.

Nuclear Molecules Springer

This book provides an authoritative source of information on the use of nanomaterials to enhance the performance of existing electrochemical energy storage systems and the manners in which new such systems are being made possible. The book covers the state of the art of the design, preparation, and engineering of nanoscale functional materials as effective catalysts and as electrodes for electrochemical energy storage and mechanistic investigation of electrode reactions. It also provides perspectives and challenges for future research. A related book by the same editors is: Nanomaterials for Fuel Cell Catalysis.

Baird's History of Clark County, Indiana Springer Science & Business Media

An updated, practical guide to bioinorganic chemistry Bioinorganic Chemistry: A Short Course, Second Edition provides the fundamentals of inorganic chemistry and biochemistry relevant to understanding bioinorganic topics. Rather than striving to provide a broad overview of the whole, rapidly expanding field, this resource provides essential background material, followed by detailed information on selected topics. The goal is to give readers the background, tools, and skills to research and study bioinorganic topics of special interest to them. This extensively updated premier reference and text: Presents review chapters on the essentials of inorganic chemistry and biochemistry Includes up-to-date information on instrumental and analytical techniques and computer-aided modeling and visualization programs Familiarizes readers with the primary literature sources and online resources Includes detailed coverage of Group 1 and 2 metal ions, concentrating on biological molecules that feature sodium, potassium, magnesium, and calcium ions Describes proteins and enzymes with iron-containing porphyrin ligand systems-myoglobin, hemoglobin, and the ubiquitous cytochrome metalloenzymes-and the non-heme, iron-containing proteins aconitase and methane monooxygenase Appropriate for one-semester bioinorganic chemistry courses for chemistry, biochemistry, and biology majors, this text is ideal for upper-level undergraduate and beginning graduate students. It is also a valuable reference for practitioners and researchers who need a general introduction to bioinorganic chemistry, as well as chemists who want an accessible desk reference.

Bioinorganic Chemistry Springer

Highly praised for its clarity and great examples, Weiers' INTRODUCTION TO BUSINESS STATISTICS, 6E introduces fundamental statistical concepts in a conversational language that connects with today's students. Even those intimidated by statistics quickly discover success with the book's proven learning aids, outstanding illustrations, non-technical terminology, and hundreds of current examples drawn from real-life experiences familiar to students. A continuing case and contemporary applications combine with more than 100 new or revised exercises and problems that reflect the latest changes in business today with an accuracy you can trust. You can easily introduce today's leading statistical software and teach not only how to complete calculations by hand and using Excel, but also how to determine which method is best for a particular task. The book's student-oriented approach is supported with a wealth of resources, including the innovative new CengageNOW online course management and learning system that saves you time while helping students master the statistical skills most important for business success.

German Underwater Ordnance Mines (Kriegsmarine Technical Studies) Lippincott Williams & Wilkins

The 3rd edition of this successful textbook continues to build on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association (TAA). Materials Chemistry addresses inorganic-, organic-, and nano-based materials from a structure vs. property treatment, providing a suitable breadth and depth coverage of the rapidly evolving materials field — in a concise format. The 3rd edition offers significant updates throughout, with expanded sections on sustainability, energy storage, metal-organic frameworks, solid electrolytes, solvothermal/microwave syntheses, integrated circuits, and nanotoxicity. Most appropriate for Junior/Senior undergraduate students, as well as first-year graduate students in chemistry, physics, or engineering fields, Materials Chemistry may also serve as a valuable reference to industrial researchers. Each chapter concludes with a section that describes important materials applications, and an updated list of thought-provoking questions.

Pipeline Rules of Thumb Handbook UNESCO Publishing

This book constitutes the proceedings of the Second International Conference on Cryptology in Africa, AFRICACRYPT 2009, held in Gammarth, Tunisia, on June 21-25, 2009. The 25 papers presented together with one invited talk were carefully reviewed and selected from 70 submissions. The topics covered are hash functions, block ciphers, asymmetric encryption, digital signatures, asymmetric encryption and anonymity, key agreement protocols, cryptographic protocols, efficient implementations, and implementation attacks.

Strange Attractors Springer

For the last 100 years historians have denigrated the psychology of the Critique of Pure Reason. In opposition, Patricia Kitcher argues that we can only understand the deduction of the categories in terms of Kant's attempt to fathom the psychological prerequisites of thought, and that this investigation

illuminates thinking itself. Kant tried to understand the "task environment" of knowledge and thought: Given the data we acquire and the scientific generalizations we make, what basic cognitive capacities are necessary to perform these feats? What do these capacities imply about the inevitable structure of our knowledge? Kitcher specifically considers Kant's claims about the unity of the thinking self; the spatial forms of human perceptions; the relations among mental states necessary for them to have content; the relations between perceptions and judgment; the malleability essential to empirical concepts; the structure of empirical concepts required for inductive inference; and the limits of philosophical insight into psychological processes.

Diamondoids Oxford University Press, USA

Haynes (U. of Montreal) traces the history of musical pitch standards over the last four centuries, linking frequency values to pitch names and telling where, when, and why various pitch levels have been used. With a focus on Italy, France, Germany, the Netherlands and the Hapsburg lands, he covers the pitches of about 1,400 historical instruments and how the design and function influenced and were influenced by changes in pitch. In addition, he studies the effect of pitch differences on musical notation and choice of key. The author has also written a book on the oboe, the instrument that plays the "A" to which a symphony orchestra tunes. Annotation copyrighted by Book News, Inc., Portland, OR

Clusters and Nanomaterials Elsevier

This book discusses different aspects of energy consumption and environmental pollution, describing in detail the various pollutants resulting from the utilization of natural resources and their control techniques. It discusses diagnostic techniques in a simple and easy-to-understand manner. It will be useful for engineers, agriculturists, environmentalists, ecologists and policy makers involved in area of pollutants from energy, environmental safety, and health sectors.

Mathematical Olympiads 1999-2000 South Western Educational Publishing

Synthesizing specific clusters as a component of useful nanostructures or controlling them as an assembly of nanocomposites is the ultimate aim. In order to understand how to synthesize individual clusters or to investigate its properties, a variety of first-principles and empirical calculations and related computer simulations have been performed alongside numerous experiments.

Geometric Theory of Information World Scientific

Challenging problems in maths plus solutions to those featured in the earlier Olympiad book.

NBS Laboratory Equipment Oxford University Press, USA

Fundamentals of Friction, unlike many books on tribology, is devoted to one specific topic: friction. After introductory chapters on scientific and engineering perspectives, the next section contains the necessary background within the areas of contact mechanics, surfaces and adhesion. Then on to fracture, deformation and interface shear, from the macroscopic behavior of materials in frictional contact to microscopic models of uniform and granular interfaces. Lubrication by solids, liquids and gases is presented next, from classical flow properties to the reorganization of monolayers of molecules under normal and shear stresses. A section on new approaches at the nano- and atomic scales covers the physics and chemistry of interfaces, an array of visually exciting simulations, using molecular dynamics, of solids and liquids in sliding contact, and related AFM/STM studies. Following a section on machines and measurements, the final chapter discusses future issues in friction.

Materials Chemistry John Wiley & Sons

This guide to Excel focuses on three areas--least squares, Fourier transformation, and digital simulation. It illustrates the techniques with detailed examples, many drawn from the scientific literature. It also includes and describes a number of sample macros and functions to facilitate common data analysis tasks. De Levie is affiliated with Bowdoin College. Annotation : 2004 Book News, Inc., Portland, OR (booknews.com).

Handbook of Surface and Colloid Chemistry Nimble Books

This book brings together geometric tools and their applications for Information analysis. It collects current and many uses of in the interdisciplinary fields of Information Geometry Manifolds in Advanced Signal, Image & Video Processing, Complex Data Modeling and Analysis, Information Ranking and Retrieval, Coding, Cognitive Systems, Optimal Control, Statistics on Manifolds, Machine Learning, Speech/sound recognition and natural language treatment which are also substantially relevant for the industry.

Nanomaterials in Advanced Batteries and Supercapacitors Springer Science & Business Media

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: - Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. - New discussion of conceptual plant design, flowsheet development and revamp design - Significantly increased coverage of capital cost estimation, process costing and economics - New chapters on equipment selection, reactor design and solids handling processes - New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography - Increased coverage of batch processing, food, pharmaceutical and biological processes - All equipment chapters in Part II revised and updated with current information - Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards -

Additional worked examples and homework problems - The most complete and up to date coverage of equipment selection - 108 realistic commercial design projects from diverse industries - A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website - Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Laboratory Micro-X-Ray Fluorescence Spectroscopy CRC Press

Problems and solutions from Mathematical Olympiad. Ideal for anyone interested in mathematical problem solving.

Perfect Knowledge of John Wiley & Sons

Scattering phenomena play an important role in modern physics. Many significant discoveries have been made through collision experiments. Amongst diverse kinds of collision systems, this book sheds light on the collision of an electron with a molecule. The electron-molecule collision provides a basic scattering problem. It is scattering by a nonspherical, multicentered composite particle with its centers having degrees of freedom of motion. The molecule can even disintegrate, i.e., dissociate or ionize into fragments, some or all of which may also be molecules. Although it is a difficult problem, the recent theoretical, experimental, and computational progress has been so significant as to warrant publication of a book that specializes in this field. The progress owes partly to technical developments in measurements and computations. No less important has been the great and continuing stimulus from such fields of application as astrophysics, the physics of the earth's upper atmosphere, laser physics, radiation physics, the physics of gas discharges, magnetohydrodynamic power generation, and so on. This book aims at introducing the reader to the problem of electron molecule collisions, elucidating the physics behind the phenomena, and reviewing, to some extent, up-to-date important results. This book should be appropriate for graduate reading in physics and chemistry. We also believe that investigators in atomic and molecular physics will benefit much from this book.

Haptic Rendering Springer

This new edition of the Handbook of Surface and Colloid Chemistry informs you of significant recent developments in the field. It highlights new applications and provides revised insight on surface and colloid chemistry's growing role in industrial innovations. The contributors to each chapter are internationally recognized experts. Several chapters

Electron-Molecule Collisions CRC Press

Over the past few decades, carbon nanomaterials, most commonly fullerenes, carbon nanotubes, and graphene, have gained increasing interest in both science and industry, due to their advantageous properties that make them attractive for many applications in nanotechnology. Another class of the carbon nanomaterials family that has slowly been gaining (re)newed interest is diamond molecules, also called diamondoids, which consist of polycyclic carbon cages that can be superimposed on a cubic diamond lattice. Derivatives of diamondoids are used in pharmaceuticals, but due to their promising properties—well-defined structures, high thermal and chemical stability, negative electron affinity, and the possibility to tune their bandgap—diamondoids could also serve as molecular building blocks in future nanodevices. This book is the first of its kind to give an exhaustive overview of the structures, properties, and current and possible future applications of diamondoids. It contains a brief historical account of diamondoids, from the discovery of the first diamondoid member, adamantane, to the isolation of higher diamondoids about a decade ago. It summarizes the different approaches to synthesizing diamondoids. In particular, current research on the conventional organic synthesis and new approaches based on microplasmas generated in high-pressure and supercritical fluids are reviewed and the advantages and disadvantages of the different methods discussed. The book will serve as a reference for advanced undergraduate- and graduate-level students in chemistry, physics, materials science, and nanotechnology and researchers in macromolecular science, nanotechnology, chemistry, biology, and medicine, especially those with an interest in nanoparticles.

Aircraft Drag Prediction and Reduction Springer Science & Business Media

Save time with this collection of straightforward, common-sense techniques that provide quick, accurate solutions to your engineering problems. Rules of Thumb for Mechanical Engineers assembles hundreds of shortcuts, calculations, practical "how-to" methods, and concise background reviews into one convenient volume.

Whether you're concerned with design, selection, or performance, you'll find fast, accurate answers here - all without wading through pages of theory. Experts from all engineering disciplines have packed this book's sixteen chapters with design criteria and practical tips. You'll find easy-to-read descriptions on fluids, heat transfer, thermodynamics, seals, pumps, and compressors, drivers, gears, and bearings, as well as piping and pressure vessels. Also covers tribology, vibrations, materials, stress and fatigue, instrumentation, and engineering economics. * Save time with this collection of straightforward, common-sense techniques that provide quick, accurate solutions to your engineering problems. * Hundreds of shortcuts, calculations and practical "how-to" methods in one convenient volume. * Fast, accurate answers to design, selection, or performance issues.