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Organometallic and Bioinorganic Perspectives
Transition Strategies for Sustainable Community Systems
Technology, Performance, and Applications
Prebiotic Chemistry and the Origin of Life
Renewable and Efficient Electric Power Systems
Mechanisms and Novel Approaches
From Biology to Clinical Applications
Handbook of Surface and Colloid Chemistry
Modern Quantum Mechanics
راهنمای دیزل ژنراتور
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An Introduction with Applications
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Handbook of Herbs and Spices
Scholarly Knowledge
Structural Equation Models
A Practitioner's Guide
A Textbook of Graph Theory
Applications in Drug Discovery
Therapeutic and Nutritional Uses of Algae
Handbook of Nonverbal Assessment
Cancer Therapy with Radiolabeled Antibodies
Operation and Maintenance of Diesel-electric Locomotives, 1965
A Phylogenetic Approach
Handbook of Marine Craft Hydrodynamics and Motion Control
From Paths to Networks
Limnological Analyses
Cement Chemistry
RNA Interference
MDI and TDI: Safety, Health and the Environment
Safety of Machinery
Diesel and Gasoline Engines
Había Una Vez
Connections in Steel Structures
Mass Spectrometry in Medicinal Chemistry
Identification of Dynamic Systems
The Prokaryotes
A Report to Department of Natural Resources Managers
Molecular Mechanism of Alzheimer's Disease
High Speed Catamarans and Multihulls

SHEPPARD KAYLEY

Organometallic and Bioinorganic Perspectives John Wiley & Sons
Designed for use in a standard two-semester engineering thermodynamics course sequence. The first half of the text contains material suitable for a basic Thermodynamics course taken by engineers from all majors. The second half of the text is suitable for an Applied Thermodynamics course in mechanical engineering programs. The text has numerous features that are unique among engineering textbooks, including historical vignettes, critical thinking boxes, and case studies. All are designed to bring real engineering applications into a subject that can be somewhat abstract and mathematical. Over 200 worked examples and more than 1,300 end of chapter problems provide the use opportunities to practice solving problems related to concepts in the text. Provides the reader with clear presentations of the fundamental principles of basic and applied engineering thermodynamics. Helps students develop engineering problem solving skills through the use of structured problem-solving techniques. Introduces the Second Law of Thermodynamics through a basic entropy concept, providing students a more intuitive understanding of this key course topic. Covers Property Values before the First Law of Thermodynamics to ensure students have a firm understanding of property data before using them. Over 200 worked examples and more than 1,300 end of chapter problems offer students extensive opportunity to practice solving problems. Historical Vignettes, Critical Thinking boxes and Case Studies throughout the book help relate abstract concepts to actual engineering applications. For greater instructor flexibility at exam time, thermodynamic tables are provided in a separate accompanying booklet. Available online testing and assessment component helps students assess their knowledge of the topics. Email textbooks@elsevier.com for details.
Transition Strategies for Sustainable Community Systems Elsevier
A year-long study of the writing development of 27 first through third graders in an English/Spanish bilingual program was conducted during the 1980-81 school year. Samples of the children's writing were collected at four intervals, coded for computer tallying, and analyzed in terms of code-switching,

spelling, punctuation and segmentation, structural features, stylistic devices, and content. Additionally, the context in which the writing developed was evaluated by classroom observations, teacher interviews, review of familial backgrounds, and a survey of the community language situation. Myths about bilingual language proficiency, biliteracy, bilingual education, teaching writing, and learning to write are all countered by evidence presented in this study. In a discussion of implications, the concept of a whole language approach to writing instruction is supported, in which authentic and functional texts are offered to and produced by children. Examples of the children's writing with appropriate translations are given along with various tables. Informal follow-up information is presented in three epilogues dealing with changes in the researcher's commitment to the study's original writing theories, the writing of some students a year after the study; and a chronological outline of the demise of the bilingual program used in the study. Appendices list interview questions used for teachers and aides and categories for coding the writing data. This book contains 134 references. (ALL)

Technology, Performance, and Applications Springer

High speed catamaran and multihull high speed marine vessel have become very popular in the last two decades. The catamaran has become the vessel of choice for the majority of high speed ferry operators worldwide. There have been significant advances in structural materials, and structural design has been combined with higher power density and fuel efficient engines to deliver ferries of increasing size. The multihull has proven itself to be a suitable configuration for active power projection across oceans as well as for coastal patrol and protection, operating at high speedd for insertion or retrieval with a low energy capability. At present there is no easily accessible material covering the combination of hydrodynamics, aerodynamics, and design issues including structures, powering and propulsion for these vehicles. Coverage in High Speed Catamarans and Multihulls includes an introduction to the history, evolution, and development of catamarans, followed by a theoretical calculation of wave resistance in shallow and deep water, as well as the drag components of the multihull. A discussion of vessel concept design describing design characteristics, empirical regression for determination of principal dimensions in preliminary design, general arrangement, and methods is also included. The book concludes with a discussion of experimental future vehicles currently in development including the small waterplane twin hull vessels, wave piercing catamarans, planing catamarans, tunnel planing catamarans and other multihull vessels.

Prebiotic Chemistry and the Origin of Life Springer

Alzheimer’s disease (AD) is an age-related neurological disease that affects tens of millions of people, in addition to their carers. Hallmark features of AD include plaques composed of amyloid beta, as well as neurofibrillary tangles of tau protein. However, despite more than a century of study, the cause of Alzheimer’s disease remains unresolved. The roles of amyloid beta and tau are being questioned and other causes of AD are now under consideration. The contributions of researchers, model organisms, and various hypotheses will be examined in this Special Issue.

Renewable and Efficient Electric Power Systems John Wiley & Sons

Diesel and Gasoline EnginesOperation and Maintenance of Diesel-electric Locomotives, 1965Handbook of Marine Craft Hydrodynamics and Motion ControlJohn Wiley & Sons

Mechanisms and Novel Approaches Cambridge University Press

This book is the Proceedings of a State-of-the-Art Workshop on Connenctions and the Behaviour, Strength and Design of Steel Structures held at Laboratoire de Mecanique et Technologie, Ecole Normale, Cachan France from 25th to 27th May 1987. It contains the papers presented at the above proceedings and is split into eight main sections covering: Local Analysis of Joints, Mathematical Models, Classification, Frame Analysis, Frame Stability and Simplified Methods, Design Requirements, Data Base Organisation, Research and Development Needs. With papers from 50 international contributors this text will provide essential reading for all those involved with steel structures.

From Biology to Clinical Applications John Wiley & Sons

Any attempt to understand the roles that textbooks played for early modern teachers and pupils must begin with the sobering realization that the field includes many books that the German word Lehrbuch and its English counterpart do not call to mind. The early modern classroom was shaken by the same knowledge explosion that took place in individual scholars' libraries and museums, and transformed by the same printers, patrons and vast cultural movements that altered the larger world it served. In the fifteenth through seventeenth centuries, the urban grammar school, the German Protestant Gymnasium and the Jesuit College, all of which did so much to form the elites of early modern Europe, took shape; the curricula of old and new universities fused humanistic with scholastic methods in radically novel ways. By doing so, they claimed a new status for both the overt and the tacit knowledge that made their work possible. This collected volume presents case studies by renowned experts, among them Ann Blair, Jill Kraye, Juergen Leonhardt, Barbara Mahlmann-Bauer and Nancy Siraisi.

Handbook of Surface and Colloid Chemistry Springer Science & Business Media

H F W Taylor was for many years Professor of Inorganic Chemistry at he University of Aberdeen, Scotland. Since 1948, his main research interest has been the chemistry of cement. His early work laid the foundations of our understanding of the structure at the nanometre level of C-S-H, the principal product formed when cement is mixed with water, and the one mainly reponsible for its hardening. Subsequent studies took him into many additional aspects of the chemistry and materials science of cement and concrete. His work has been recognized by Fellowships and by other honours and awards from many scientific societies in the UK, USA and elsewhere. This second edition of Cement chemistry addresses the chemistry and materials science of the principal silicate and aluminate cements used in building and Civil engineering. Emphasis throughout is on the underlying science. The book deals more specifically with the chemistry of Portland cement manufacture and the nature of the resulting product, the processes that occur when this product is mixed with water, the nature of the hardened material, the chemistry of other types of hydraulic cement, and chemical and microstructural aspects of concrete, including processes that affect its durability. Since the first edition of this book was published in 1990, research throughout the world has greatly augmented our knowledge in all of hese areas. The present edition has been updated and revised to take account of these advances. The reader will acquire a solid understanding of the subject and will be better equipped to deal with the problems and pitfalls that can arise in engineering practice as a result of inadequate understanding of the relevant chemistry. It will serve both as an introduction to those entering the subject for the first time and as a guide to the latest developments for those already experienced in the field.

Modern Quantum Mechanics Springer

Commodity Option Pricing: A Practitioner’s Guide covers commodity option pricing for quantitative analysts, traders or structurers in banks, hedge funds and commodity trading companies. Based on the author’s industry experience with

commodity derivatives, this book provides a thorough and mathematical introduction to the various market conventions and models used in commodity option pricing. It introduces the various derivative products typically traded for commodities and describes how these models can be calibrated and used for pricing and risk management. The book has been developed with input from traders and examples using real world data, together with relevant up to date academic research. The book includes practical descriptions of market conventions and quote codes used in commodity markets alongside typical products seen in broker quotes and used in calibration. Also discussed are commodity models and their mathematical derivation and volatility surface modelling for traded commodity derivatives. Gold, silver and other precious metals are addressed, including gold forward and gold lease rates, as well as copper, aluminium and other base metals, crude oil and natural gas, refined energy and electricity. There are also sections on the products encountered in commodities such as crack spread and spark spread options and alternative commodities such as carbon emissions, weather derivatives, bandwidth and telecommunications trading, plastics and freight. Commodity Option Pricing is ideal for anyone working in commodities or aiming to make the transition into the area, as well as academics needing to familiarize themselves with the industry conventions of the commodity markets.

راهنمای دیزل ژنراتور Springer

The book comprehensively discusses the mechanisms of pathogenesis and drug resistance; current diagnostics landscape of four key human pathogens; bacterial, fungal, protozoans and viral which are the causes of major infectious diseases. It also assesses the emerging technologies for the detection and quantification of these pathogens. Further, it discusses the novel opportunities to fight against these infectious diseases and to identify pertinent drug targets with novel methodologies. It also reviews the current and future insights into the control, elimination, and eradication of these infectious diseases. Importantly, the book discusses the epidemiological characteristics and various challenges in combating Ebola and Influenza diseases. Finally, the book highlights the growing role of nanotechnology and bioinformatics resources for combating the infectious diseases. In summary, the book provides the mechanistic insight of the pathogenicity, drug-resistance, therapeutic strategies and identification of the novel drug targets of Mycobacterium tuberculosis, Plasmodium, Candida, Hepatitis C and emerging viral infections.

Electrical equipment of machines. General requirements Springer

In its second edition, expanded with new chapters on domination in graphs and on the spectral properties of graphs, this book offers a solid background in the basics of graph theory. Introduces such topics as Dirac's theorem on k-connected graphs and more.

An Introduction with Applications OUP Oxford

The study of evolution at the molecular level has given the subject of evolutionary biology a new significance. Phylogenetic 'trees' of gene sequences are a powerful tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular data, and the significance evolutionary theory has for molecular studies. The book is accessible yet sufficiently detailed and explicit so that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate understanding of some of the more complex issues. Emphasis on clarity and accessibility.

Pathogenicity and Drug Resistance of Human Pathogens John Wiley & Sons

Cancer Therapy with Radiolabeled Antibodies explores the most current experimental and clinical advances in the newly emerging field of cancer radioimmunotherapy (RAIT). Providing a multidisciplinary and international context, some of the world's leading experts examine the problems and prospects of RAIT from radiation, immunological, chemical, physical, physiological, and clinical perspectives with both overviews and original research. Discussions cover the up-to-date clinical results in the RAIT of ovarian, breast, colorectal, and brain cancers, as well as the current status of RAIT in the management of B cell lymphomas. Radiobiology, dosimetry, radiochemistry, targeting biology in experimental models, clinical experiences in hematopoietic and solid tumors, and new approaches to improve cancer radioimmunotherapy are also discussed. In addition, new dosimetry concepts, new labeling methods, new concepts of antibody pharmacokinetics, and new methods to enhance selective cancer radioimmunotherapy are included.

Handbook of Herbs and Spices Gale and the British Library

This book presents an overview of current views on the origin of life and its earliest evolution. Each chapter describes key processes, environments and transition on the long road from geochemistry and astrochemistry to biochemistry and finally to the ancestors of today´s organisms. This book combines the bottom-up and the top-down approaches to life including the origin of key chemical and structural features of living cells and the nature of abiotic factors that shaped these features in primordial environments. The book provides an overview of the topic as well as its state of the art for graduate students and newcomers to the field. It also serves as a reference for researchers in origins of life on Earth and beyond.

Scholarly Knowledge CRC Press

This is the first major collection of essays to look at the literature of the entire Tudor period, from the reign of Henry VII to death of Elizabeth I. It pays particularly attention to the years before 1580. Those decades saw, amongst other things, the establishment of print culture and growth of a reading public; the various phases of the English Reformation and process of political centralization that enabled and accompanied them; the increasing emulation of Continental and classical literatures under the influence of humanism; the self-conscious emergence of English as a literary language and determined creation of a native literary canon; the beginnings of English empire and the consolidation of a sense of nationhood. However, study of Tudor literature prior to 1580 is not only of worth as a context, or foundation, for an Elizabethan 'golden age'. As this much-needed volume will show, it is also of artistic, intellectual, and cultural merit in its own right. Written by experts from Europe, North America, and the United Kingdom, the forty-five chapters in The Oxford Handbook to Tudor Literature recover some of the distinctive voices of sixteenth-century writing, its energy, variety, and inventiveness. As well as essays on well-known writers, such as Philip Sidney or Thomas Wyatt, the volume contains the first extensive treatment in print of some of the Tudor era's most original voices.

Structural Equation Models CRC Press
MDI and TDI are polymer building blocks with a wide range of applications in industry. Both are used in large quantities and can be found in a wide variety of industries and applications. As their use will often involve large numbers of workers they are also subject to stringent health and safety regulations. This book covers all the important topics concerning MDI and TDI and provides comprehensive coverage on the health and environmental science associated with these. Considering the risk management of both substances this is the first book to offer comprehensive discussion of health and environmental issues and includes * insights from academic, regulatory, and industrial experts * numerous photographs, spectra, tables, and graphs * additional information on physical properties and analysis * Considers the risk management of these two diisocyanates Addressing their use throughout industry this title presents an essential source of information for occupational physicians, industrial hygiene professionals, polyurethane producers, environmental scientists, chemical analysts and regulators.
A Practitioner's Guide CRC Press
Precise dynamic models of processes are required for many applications, ranging from control engineering to the natural sciences and economics. Frequently, such precise models cannot be derived using theoretical considerations alone. Therefore, they must be determined experimentally. This book treats the determination of dynamic models based on measurements taken at the process, which is known as system identification or process identification. Both offline and online methods are presented, i.e. methods that post-process the measured data as well as methods that provide models during the measurement. The book is theory-oriented and application-oriented and most methods covered have been used successfully in practical applications for many different processes. Illustrative examples in this book with real measured data range from hydraulic and electric actuators up to combustion engines. Real experimental data is also provided on the Springer webpage, allowing readers to gather their first experience with the methods presented in this book. Among others, the book covers the following subjects: determination of the non-parametric frequency response, (fast) Fourier transform, correlation analysis, parameter estimation with a focus on the method of Least Squares and modifications, identification of time-variant processes, identification in closed-loop, identification of continuous time processes, and subspace methods. Some methods for nonlinear system identification are also considered, such as the Extended Kalman filter and neural networks. The different methods are compared by using a real three-mass oscillator process, a model of a drive train. For many identification methods, hints for the practical implementation and application are provided. The book is intended to meet the needs of students and practicing engineers working in research and development, design and manufacturing.
A Textbook of Graph Theory John Wiley & Sons
Handbook of MARINE CRAFT HYDRODYNAMICS AND MOTION CONTROL The latest tools for analysis and design of advanced GNC systems Handbook of Marine Craft Hydrodynamics and Motion Control is an extensive study of the latest research in hydrodynamics, guidance, navigation, and control systems for marine craft. The text establishes how the implementation of mathematical models and modern control theory can be used for simulation and verification of control systems, decision-support systems, and situational awareness systems. Coverage includes hydrodynamic models for marine craft, models for wind, waves and ocean currents, dynamics and stability of marine craft, advanced guidance principles, sensor fusion, and inertial navigation. This important book includes the latest tools for analysis and design of advanced GNC systems and presents new material on unmanned underwater vehicles, surface craft, and autonomous vehicles. References and examples are included to enable engineers to analyze existing projects before making their own designs, as well as MATLAB scripts for hands-on software development and testing. Highlights of this Second Edition include: Topical case studies and worked examples demonstrating how you can apply modeling and control design techniques to your own designs A Github repository with MATLAB scripts (MSS toolbox) compatible with the latest software releases from Mathworks New content on mathematical modeling, including models for ships and underwater vehicles, hydrostatics, and control forces and moments New methods for guidance and navigation, including line-of-sight (LOS) guidance laws for path following, sensory systems, model-based navigation systems, and inertial navigation systems This fully revised Second Edition includes innovative research in hydrodynamics and GNC systems for marine craft, from ships to autonomous vehicles operating on the surface and under water. Handbook of Marine Craft Hydrodynamics and Motion Control is a must-have for students and engineers working with unmanned systems, field robots, autonomous vehicles, and ships. MSS toolbox: https://github.com/cybergalactic/mss Lecture notes: https://www.fossen.biz/wiley Author’s home page: https://www.fossen.biz
Applications in Drug Discovery CRC Press
A comprehensive and engaging textbook, providing a graduate-level, non-historical, modern introduction of quantum mechanical concepts.
Therapeutic and Nutritional Uses of Algae Thomas Telford
From the early days when RNA interference was a strange artifact in worms to the 2006 Noble Prize received by Fire and Mello and the current clinical trials, the field of RNA interference has grown at a breakneck pace. In RNA Interference: From Biology to Clinical Applications, expert contributors provide an overview of the most current science and protocols that span the biological disciplines from detailed nucleic acid chemistry, to pharmacology, to the manipulation of signal transduction pathways. Divided into three distinct sections, this volume delves into the physiology of RNA interference, RNA interference in the laboratory and siRNA delivery, and preclinical and clinical issues associated with the use of RNAi-inducing agents as drugs in order to stimulate new questions and offer the tools necessary to start addressing those questions. Written in the highly successful Methods in Molecular BiologyTM series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and inspiring, RNA Interference: From Biology to Clinical Applications aims to promote and motivate innovation by reviewing what has been done, providing details of how it has been done, and encouraging speculation on what the future may hold.