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Dynamics and Nonlinear Control of Integrated Process Systems Cambridge University Press
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Computational Models for Turbulent Reacting Flows Oxford University Press, USA
Designing molecules and materials with desired properties is an important prerequisite for advancing technology in our modern societies. This requires both the ability to calculate accurate microscopic properties, such as energies, forces and electrostatic multipoles of specific configurations, as well as efficient sampling of potential energy surfaces to obtain corresponding macroscopic properties. Tools that can provide this are accurate first-principles calculations rooted in quantum mechanics, and statistical mechanics, respectively. Unfortunately, they come at a high computational cost that prohibits calculations for large systems and long time-scales, thus presenting a severe bottleneck both for searching the vast chemical compound space and the stupendously many dynamical configurations that a molecule can assume. To overcome this challenge, recently there have been increased efforts to accelerate quantum simulations with machine learning (ML). This emerging interdisciplinary community encompasses chemists, material scientists, physicists, mathematicians and computer scientists, joining forces to contribute to the exciting hot topic of progressing machine learning and AI for molecules and materials. The book that has emerged from a series of workshops provides a snapshot of this rapidly developing field. It contains tutorial material explaining the relevant foundations needed in chemistry, physics as well as machine learning to give an easy starting point for interested readers. In addition, a number of research papers defining the current state-of-the-art are included. The book has five parts (Fundamentals, Incorporating Prior Knowledge, Deep Learning of Atomistic Representations, Atomistic Simulations and Discovery and Design), each prefaced by editorial commentary that puts the respective parts into a broader scientific context. .
Evidence Elsevier
Standard medicinal chemistry courses and texts are organized by classes of drugs with an emphasis on descriptions of their biological and pharmacological effects. This book represents a new approach based on physical organic chemical principles and reaction mechanisms that allow the reader to extrapolate to many related classes of drug molecules. The Second Edition reflects the significant changes in the drug industry over the past decade, and includes chapter problems and other elements that make the book more useful for course instruction. - New edition includes new chapter problems and exercises to help students learn, plus extensive references and illustrations - Clearly presents an organic chemist's perspective of how drugs are designed and function, incorporating the extensive changes in the drug industry over the past ten years - Well-respected author has published over 200 articles, earned 21 patents, and invented a drug that is under consideration for commercialization
Holt Physics Springer
Boiled-down essentials of the top-selling Schaum's Outline series for the student with limited time What could be better than the bestselling Schaum's Outline series? For students looking for a quick nuts-and-bolts overview, it would have to be Schaum's Easy Outline series. Every book in this series is a pared-down, simplified, and tightly focused version of its predecessor. With an emphasis on clarity and brevity, each new title features a streamlined and updated format and the absolute essence of the subject, presented in a concise and readily understandable form. Graphic elements such as sidebars, reader-alert icons, and boxed highlights stress selected points from the text, illuminate keys to learning, and give students quick pointers to the essentials. Designed to appeal to underprepared students and readers turned off by dense text Cartoons, sidebars, icons, and other graphic pointers get the material across fast Concise text focuses on the essence of the subject Delivers expert help from teachers who are authorities in their fields Perfect for last-minute test preparation So small and light that they fit in a backpack!
Chromatographic Processes Cambridge University Press
Thorough treatment of the design, preparation, and utilization of catalytic systems for optimal performance.
Molecular Structure and Properties Springer
Master the principles of thermodynamics, and understand their practical real-world applications, with this deep and intuitive undergraduate textbook.
Inferences by Parallel Reasoning in Islamic Jurisprudence Springer
A result-oriented, practical guide to key approaches, methodologies and tools for designing, modelling and simulating chromatographic processes.
Chemical Engineering Holt McDougal
This book is devoted to the new development of zeolitic catalysts with an emphasis on new strategies for the preparation of zeolites, novel techniques for their characterization and emerging applications of zeolites as catalysts for sustainable chemistry, especially in the fields of energy, biomass conversion and environmental protection. Over the years, energy and the environment have become the most important global issues, while zeolitic catalysts play important roles in addressing them. With individual chapters written by leading experts, this book offers an essential reference work for researchers and professionals in both academia and industry. Feng-Shou Xiao is a Professor at the Department of Chemistry, Zhejiang University, China. Xiangju Meng is an Associate Professor at the Department of Chemistry, Zhejiang University, China.
Holt Chemistry Cambridge University Press
ALERT: The Legacy WileyPLUS platform retires

on July 31, 2021 which means the materials for this course will be invalid and unusable. If you were directed to purchase this product for a course that runs after July 31, 2021, please contact your instructor immediately for clarification. This package includes a registration code for the WileyPLUS course associated with Financial and Managerial Accounting, 3rd Edition, along with a three-hole punched, loose-leaf version of the text. Please note that the loose-leaf print companion is only sold in a set and is not available for purchase on its own. Before you purchase, check with your instructor or review your course syllabus to ensure that your instructor requires WileyPLUS. For customer technical support, please visit http://www.wileyplus.com/support. WileyPLUS registration cards are only included with new products. Used and rental products may not include WileyPLUS registration cards. Financial and Managerial Accounting provides students with a clear introduction to fundamental accounting concepts beginning with the building blocks of the accounting cycle and continuing through financial statements. This product is ideal for a two-semester Financial and Managerial Accounting sequence where students spend equal time learning financial and managerial accounting concepts as well as learn the accounting cycle from a corporate perspective.

Fed-Batch Cultures Cambridge University Press

This reference is a must for students who need extra help, reteaching, or extra practice. The guide moves students through the same concepts as the text, but at a slower pace. More descriptive detail, along with visual algorithms, provides a more structured approach. Each chapter closes with a large bank of practice problems. Book jacket.

Introduction to Fluid Mechanics Royal Society of Chemistry

The behavior of a chemical system is affected by many physicochemical parameters. The sensitivity of the system's behavior to changes in parameters is known as parametric sensitivity. When a system operates in a parametrically sensitive region, its performance becomes unreliable and changes sharply with small variations in parameters. Thus, it is of great value to those who design and operate chemical systems to be able to analyze and predict their sensitivity behavior. This book is the first to provide a thorough treatment of the concept of parametric sensitivity and the mathematical tool it generated, sensitivity analysis. The emphasis is on applications to real situations. The book begins with definitions of various sensitivity indices and describes the numerical techniques most commonly used for their evaluation. Extensively illustrated chapters discuss sensitivity analysis in a variety of chemical reactors--batch, tubular, continuous-flow, fixed-bed--and in combustion systems, mechanistic studies, air pollution, and metabolic processes. Seniors and graduate students in various fields of science and engineering, researchers, and practicing engineers will welcome this valuable resource.

Machine Learning Meets Quantum Physics Wiley

A Foundation Text for Superintendent and Principal Eligibility Certification Programs

Holt Physics Cambridge University Press

Advanced Transport Phenomena is ideal as a graduate textbook. It contains a detailed discussion of modern analytic methods for the solution of fluid mechanics and heat and mass transfer problems, focusing on approximations based on scaling and asymptotic methods, beginning with the derivation of basic equations and boundary conditions and concluding with linear stability theory. Also covered are unidirectional flows, lubrication and thin-film theory, creeping flows, boundary layer theory, and convective heat and mass transport at high and low Reynolds numbers. The emphasis is on basic physics, scaling and nondimensionalization, and approximations that can be used to obtain solutions that are due either to geometric simplifications, or large or small values of dimensionless parameters. The author emphasizes setting up problems and extracting as much information as possible short of obtaining detailed solutions of differential equations. The book also focuses on the solutions of representative problems. This reflects the book's goal of teaching readers to think about the solution of transport problems.

Mass and Heat Transfer Cambridge University Press

Designed for introductory undergraduate courses in fluid mechanics for chemical engineers, this stand-alone textbook illustrates the fundamental concepts and analytical strategies in a rigorous and systematic, yet mathematically accessible manner. Using both traditional and novel applications, it examines key topics such as viscous stresses, surface tension, and the microscopic analysis of incompressible flows which enables students to understand what is important physically in a novel situation and how to use such insights in modeling. The many modern worked examples and end-of-chapter problems provide calculation practice, build confidence in analyzing physical systems, and help develop engineering judgment. The book also features a self-contained summary of the mathematics needed to understand vectors and tensors, and explains solution methods for partial differential equations. Including a full solutions manual for instructors available at www.cambridge.org/deen, this balanced textbook is the ideal resource for a one-semester course.

Advanced Transport Phenomena Cambridge University Press

This monograph proposes a new (dialogical) way of studying the different forms of correlational inference, known in the Islamic jurisprudence as qiy?s. According to the authors' view, qiy?s represents an innovative and sophisticated form of dialectical reasoning that not only provides new epistemological insights into legal argumentation in general (including legal reasoning in Common and Civil Law) but also furnishes a fine-grained pattern for parallel reasoning which can be deployed in a wide range of problem-solving contexts and does not seem to reduce to the standard forms of analogical reasoning studied in contemporary philosophy of science and argumentation theory. After an overview of the emergence of qiy?s and of the work of al-Sh?r?z? penned by Soufi Youcef, the authors discuss al-Sh?r?z?'s classification of correlational inferences of the occasioning factor (qiy?s al-'illa). The second part of the volume deliberates on the system of correlational inferences by indication and resemblance (qiy?s al-dal?la, qiy?s al-shabah). The third part develops the main theoretical background of the authors' work, namely, the dialogical approach to Martin-Löf's Constructive Type Theory. The authors present this in a general form and independently of adaptations deployed in parts I and II. Part III also includes an appendix on the relevant notions of Constructive Type Theory, which has been extracted from an overview written by Ansten Klev. The book concludes with some brief remarks on contemporary approaches to analogy in Common and Civil Law and also to parallel reasoning in general.

Acp Biol 131 Principles of Bio Logy II - Lab Cambridge University Press

Gas-solid flows are involved in numerous industrial processes and occur in various natural phenomena. This authoritative book addresses the fundamental principles that govern gas-solid flows and the application of these principles to various gas-solid flow systems. The book is arranged in two parts: Part I deals with basic relationships and phenomena, including particle size and properties, collision mechanics, momentum transfer, heat and mass transfer, basic equations, and intrinsic phenomena in gas-solid flows. Part II discusses gas-solid flow systems of industrial interest such as gas-solid separators, hoppers and standpipes, dense-phase fluidized beds, fluidized beds, pneumatic conveying systems, and heat and mass transfer in fluidization systems. As a comprehensive text on gas-solid flows, which includes end-of-chapter problems, this book is aimed at students, but will also be useful to a broad range of engineers and applied scientists. Solutions manual available.

Principles of Gas-Solid Flows Cambridge University Press

This first book dealing exclusively with every aspect of fed-batch operations, used in most industrially important fermentation and bioreactor operations.

Thermodynamics with Chemical Engineering Applications Holt McDougal

A theoretical and practical guide to reducing

model complexity and achieving tight control of modern integrated plants.

Holt Chemistry Oxford University Press, USA
Presented in an accessible and introductory manner, this is the first book devoted to the comprehensive study of colloidal suspensions.

Catalyst Design Holt McDougal
Students taking their first chemical engineering course plunge into the 'nuts and bolts' of mass and energy balances and often miss the broad view of what chemical engineers do. This 1998 text offers a well-paced introduction to chemical engineering. Students are first introduced to the fundamental steps in design and three methods of analysis: mathematical modeling, graphical methods, and dimensional analysis. The book then describes how to apply engineering skills, such as how to simplify calculations through assumptions and approximations; how to verify calculations, significant figures, spreadsheets, graphing (standard, semi-log and log-log); and how to use data maps. In addition, the book teaches engineering skills through the design and analysis of chemical processes and process units in order to assess product quality, economics, safety, and environmental impact. This text will help undergraduate students in chemical engineering develop engineering skills early in their studies. Lecturer's solution manual available from the publisher on request.