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Reviews in Computational Chemistry Addison
Wesley Longman

This book is designed as a teaching aid to help communicate the excitement and wonder of chemistry to students.

Addison-Wesley science insights
Royal Society of Chemistry

"A comprehensive guide to solid-state chemistry which is ideal for all undergraduate levels. It covers well the fundamentals of the area, from basic structures to methods of

analysis, but also introduces modern topics such as sustainability." Dr. Jennifer Readman, University of Central Lancashire, UK "The latest edition of Solid State Chemistry combines clear explanations with a broad range of topics to provide students with a firm grounding in the major theoretical and practical aspects of the chemistry of solids." Professor Robert Palgrave, University College London, UK Solid State Chemistry: An Introduction 5th edition is a fully revised edition of one of our most successful textbooks with at least 20% new information. Solid-state chemistry is still a rapidly advancing field, contributing to areas such as batteries for transport and energy

storage, nanostructured materials, porous materials for the capture of carbon dioxide and other pollutants. This edition aims, as previously, not only to teach the basic science that underpins the subject, but also to direct the reader to the most modern techniques and to expanding and new areas of research. The user-friendly style takes a largely non-mathematical approach and gives practical examples of applications of solid state materials and concepts. A notable and timely addition to the 5th edition is a chapter on sustainability written by an expert in the field. Examples of how solid state chemistry contribute to sustainability are also given in relevant chapters. Other new topics in this edition include cryo-electron microscopy, X-ray photoelectron spectroscopy (ESCA) and covalent organic frameworks. A companion website offering accessible resources for students and instructors alike, featuring topics and tools such as quizzes, videos, web links and more has been provided for this edition. New in the Fifth Edition A companion website which offers accessible resources for students and instructors alike, featuring topics and tools such as quizzes, videos, web links and more A new chapter on sustainability in solid-state chemistry written by an expert in this field Cryo-electron microscopy X-ray photoelectron spectroscopy (ESCA) Covalent organic frameworks Graphene oxide and bilayer graphene Elaine A. Moore studied chemistry as an undergraduate at Oxford University and then stayed on to complete a DPhil in theoretical chemistry with Peter Atkins. After a two-year postdoctoral position at the University of Southampton, she joined the Open University in 1975, becoming a lecturer in chemistry in 1977, senior lecturer in 1998, and reader in 2004. She retired in 2017 and currently has an honorary position at the Open University. She has produced OU teaching texts in chemistry for courses at levels 1, 2, and 3 and written texts in astronomy at level 2 and physics at level 3. She was team leader for the production and presentation of an Open University level 2 chemistry module delivered entirely online. She is a Fellow of the Royal Society of Chemistry and a Senior Fellow of the Higher Education Academy. She was co-chair for the successful Departmental submission of an Athena Swan bronze award. Lesley E. Smart studied chemistry at Southampton University, United Kingdom. After completing a PhD in Raman spectroscopy, she moved to a lectureship at the (then) Royal University of Malta. After returning to the United Kingdom, she took an SRC Fellowship to Bristol University to work on X-ray crystallography. From 1977 to 2009, she worked at the Open University chemistry department as a lecturer, senior lecturer, and Molecular Science Programme director, and she held an honorary senior lectureship there

until her death in 2016. At the Open University, she was involved in the production of undergraduate courses in inorganic and physical chemistry and health sciences. She served on the Council of the Royal Society of Chemistry and as the chair of their Benevolent Fund.

Physical Chemistry of Metallurgical Processes, Second Edition Prentice Hall

This is the third edition of the successful text-reference book that covers computational chemistry. It features changes to the presentation of key concepts and includes revised and new material with several expanded exercises at various levels such as 'harder questions' for those ready to be tested in greater depth - this aspect is absent from other textbooks in the field. Although introductory and assuming no prior knowledge of computational chemistry, it covers the essential aspects of the subject. There are several introductory textbooks on computational chemistry; this one is (as in its previous editions) a unique textbook in the field with copious exercises (and questions) and solutions with discussions. Noteworthy is the fact that it is the only book at the introductory level that shows in detail yet clearly how matrices are used in one important aspect of computational chemistry. It also serves as an essential guide for researchers, and as a reference book.

Fundamentals of Analytical Chemistry Cengage Learning

This updated, second edition retains its classroom-tested treatment of physical chemistry of metallurgical topics, such as roasting of sulfide minerals, matte smelting, converting, structure, properties and theories of slag,

reduction of oxides and reduction smelting, interfacial phenomena, steelmaking, secondary steelmaking, role of halides in extraction of metals, refining, hydrometallurgy and electrometallurgy, and adds new data in worked-out examples as well as up-to-date references to the literature. The book further explains the physical chemistry of various metallurgical topics, steps involved in extraction of metals, such as roasting, matte smelting/converting, reduction smelting, steelmaking reactions, deoxidation, stainless steelmaking, vacuum degassing, refining, leaching, chemical precipitation, ion exchange, solvent extraction, cementation, gaseous reduction and electrowinning. Each topic is illustrated with appropriate examples of applications of the technique in extraction of some common, reactive, rare, or refractory metal together with worked out problems explaining the principle of the operation. The problems require imagination and critical analyses and also encourage readers for creative application of thermodynamic data in metal extraction. Updates and condenses text throughout the book by sequential arrangement of paragraphs in different chapters; Maximizes readers' understanding of the physicochemical principles involved in extraction/production of common and rare/reactive metals by pyro- as well as hydrometallurgical routes; Reinforces concepts presented with worked examples in each chapter explaining the process steps; Explains the physical chemistry of various metallurgical steps, such as roasting, matte

smelting/converting, and reduction smelting, steelmaking, aqueous processing etc. in extraction of metals; Collects and uniformly presents scattered information on physicochemical principles of metal production from various books and journals.

Fused Pyrimidine-Based Drug Discovery John Wiley & Sons

Fused Pyrimidine-Based Drug Discovery covers all categories of fused-pyrimidines along with pharmacological and in silico studies. It covers the chemistry and biological activities, as well as the design of novel fused-pyrimidine scaffolds. N-Heterocyclic scaffolds are found in most known drug candidates, and are of interest to medicinal and organic chemists to design, synthesize and evaluate their biological properties. A variety of fused-pyrimidine molecules have been synthesized and extracted from natural resources, and are found to exhibit various biological activities such as antifolates, anticancer agents, analgesics, antimetabolites, CNS active agents and many more. Some of these scaffolds like purines are also known to have involvement in biological processes and are part of the framework of genetic material. This book focuses on the classification, structural chemistry, and chemical and physical properties along with various approaches for their synthesis. This book is ideal for researchers in organic chemistry both in academic and industrial settings, postgraduates in chemistry and medicinal chemistry. Covers US FDA approved fused pyrimidine containing drugs and their analyses Comprises classification based upon fusion of carbocyclic/heterocyclic rings(s) with a pyrimidine ring, and features their synthetic schemes, approaches and strategies Includes new fused-pyrimidine scaffolds, allowing the researcher to predict the mechanisms involved in their synthesis Covers fused pyrimidine containing bioactive compounds from the natural sources Covers in silico studies of known fused pyrimidines and Structure-Activity Relationship (SAR), which will encourage the development of new or modified existing scaffolds with specific biological activities Food Engineering - Volume I Springer

This book aims to develop models and modeling techniques that are useful when applied to all complex systems. It adopts both analytic tools and computer simulation. The book is intended for students and researchers with a variety of backgrounds.

Modern Biology John Wiley & Sons

The Advances in Chemical Physics series provides the chemical physics and physical chemistry fields with a forum for critical, authoritative evaluations of advances in every area of the discipline. Filled with cutting-edge research reported in a cohesive manner not found elsewhere in the literature, each volume of the Advances in Chemical Physics series serves as the perfect supplement to any advanced graduate class devoted to the study of chemical physics.

Technical Book Review CRC Press

This is the seventh volume in the successful series designed to help the chemistry community keep current with the many new developments in computational techniques. The writing style is refreshingly pedagogical and non-mathematical, allowing students and researchers access to computational methods outside their immediate area of expertise. Each invited author approaches a topic with the aim of helping the reader understand the material, solve problems, and locate key references quickly.

Review of the International Atomic Policies and Programs of the United States EOLSS Publications Physical Inorganic Chemistry contains the fundamentals of physical inorganic chemistry, including information on reaction types, and treatments of reaction mechanisms. Additionally, the text explores complex reactions and processes in terms of energy, environment, and health. This valuable resource closely examines mechanisms, an under-discussed topic. Divided into two sections, researchers, professors, and students will find the wide range of topics, including the most cutting edge topics in chemistry, like the future of solar

energy, catalysis, environmental issues, climate changes atmosphere, and human health, essential to understanding chemistry.

Current science John Wiley & Sons

The new Pearson Chemistry program combines our proven content with cutting-edge digital support to help students connect chemistry to their daily lives. With a fresh approach to problem-solving, a variety of hands-on learning opportunities, and more math support than ever before, Pearson Chemistry will ensure success in your chemistry classroom. Our program provides features and resources unique to Pearson--including the Understanding by Design Framework and powerful online resources to engage and motivate your students, while offering support for all types of learners in your classroom.

Reviews of Modern Quantum Chemistry Academic Press

Solid State Physics

The Physical Chemistry of Materials

Springer Nature

A textbook exploring such aspects of matter and energy as heat, electricity, and nuclear chemistry, with suggested activities and review questions at the end of each chapter.

Chemistry Springer Science & Business Media

In recent years, the area dealing with the physical chemistry of materials has become an emerging discipline in materials science that emphasizes the study of materials for chemical, sustainable energy, and pollution abatement applications. Written by an active researcher in this field, Physical Chemistry of Materials: Energy and Environmental Appl

Chemistry: Central Science Royal Society of Chemistry

The #1 choice for high school Chemistry.

Neural Networks in Bioprocessing and Chemical Engineering World Scientific

An introduction to the fundamental concepts of the emerging field of Artificial Chemistries, covering both theory and practical applications. The field of Artificial Life (ALife) is now firmly established in

the scientific world, but it has yet to achieve one of its original goals: an understanding of the emergence of life on Earth. The new field of Artificial Chemistries draws from chemistry, biology, computer science, mathematics, and other disciplines to work toward that goal. For if, as it has been argued, life emerged from primitive, prebiotic forms of self-organization, then studying models of chemical reaction systems could bring ALife closer to understanding the origins of life. In Artificial Chemistries (ACs), the emphasis is on creating new interactions rather than new materials. The results can be found both in the virtual world, in certain multiagent systems, and in the physical world, in new (artificial) reaction systems. This book offers an introduction to the fundamental concepts of ACs, covering both theory and practical applications.

After a general overview of the field and its methodology, the book reviews important aspects of biology, including basic mechanisms of evolution; discusses examples of ACs drawn from the literature; considers fundamental questions of how order can emerge, emphasizing the concept of chemical organization (a closed and self-maintaining set of chemicals); and surveys a range of applications, which include computing, systems modeling in biology, and synthetic life. An appendix provides a Python toolkit for implementing ACs. Elsevier

This book presents chemical analyses of our most pressing waste, pollution, and resource problems for the undergraduate or graduate student. The distinctive holistic approach provides both a solid ground in theory, as well as a laboratory manual detailing introductory and advanced experimental applications. The laboratory procedures are presented at microscale conditions, for minimum waste and maximum economy. This work fulfills an urgent need for an introductory text in environmental chemistry combining theory and practice, and is a valuable tool for preparing the next generation of environmental scientists.

Artificial Chemistries CRC Press

With the informal style of a friendly professor during office hours, these videos cover content from all 25 chapters of

Brown/LeMay/Bursten's Chemistry: The Central Science, Tenth Edition. Videos features: * Carefully selected and paired end-of-chapter Visualizing Concept and Exercise problems, many of which include full-color art to help bring the solutions to life. * Explanations by a friendly, real-life chemistry professor. * Nearly 10 hours of helpful review, accounting for approximately 12 videos per chapter. * A fully-functional interface allowing students to navigate each chapter, select, and play/rewind/fast-forward/stop each video independently. * Closed-captioning.

Addison-Wesley Chemistry John Wiley & Sons

Addison-Wesley Chemistry
Addison-Wesley Chemistry
Chemistry
Pearson
Prentice Hall
Chemical Engineering Education MIT Press

Neural networks have received a great deal of attention among scientists and engineers. In chemical engineering, neural computing has moved from pioneering projects toward mainstream industrial applications. This book introduces the fundamental principles of neural computing, and is the first to focus on its practical applications in bioprocessing and chemical engineering. Examples, problems, and 10 detailed case studies demonstrate how to develop, train, and apply neural networks. A disk containing input data files for all illustrative examples, case studies, and practice problems provides the opportunity for hands-on experience. An important goal of the book is to help the student or practitioner learn and implement neural networks quickly and inexpensively using commercially available, PC-based software tools. Detailed network specifications and training procedures are included for all neural network examples

discussed in the book. Each chapter contains an introduction, chapter summary, references to further reading, practice problems, and a section on nomenclature. Includes a PC-compatible disk containing input data files for examples, case studies, and practice problems. Presents 10 detailed case studies. Contains an extensive glossary, explaining terminology used in neural network applications in science and engineering. Provides examples, problems, and ten detailed case studies of neural computing applications, including: Process fault-diagnosis of a chemical reactor Leonard Kramer fault-classification problem Process fault-diagnosis for an unsteady-state continuous stirred-tank reactor system Classification of protein secondary-structure categories Quantitative prediction and regression analysis of complex chemical kinetics Software-based sensors for quantitative predictions of product compositions from fluorescent spectra in bioprocessing Quality control and optimization of an autoclave curing process for manufacturing composite materials Predictive modeling of an experimental batch fermentation process Supervisory control of the Tennessee Eastman plantwide control problem Predictive modeling and optimal design of extractive bioseparation in aqueous two-phase systems

Addison-Wesley Small-scale Chemistry Royal Society of Chemistry

The field of High-Resolution Spectroscopy has been considerably extended and even redefined in some areas. Combining the knowledge of spectroscopy, laser technology, chemical computation, and experiments, Handbook of High-Resolution Spectroscopy provides a comprehensive survey of the whole field as it presents itself today, with emphasis on the recent developments. This essential handbook for advanced research students, graduate students, and researchers takes a

systematic approach through the range of wavelengths and includes the latest advances in experiment and theory that will help and guide future applications. The first comprehensive survey in high-resolution molecular spectroscopy for over 15 years Brings together the knowledge of spectroscopy, laser technology, chemical computation and experiments Brings the reader up-to-date with the many advances that have been made in recent times Takes the reader through the range of wavelengths, covering all possible techniques such as Microwave Spectroscopy, Infrared Spectroscopy, Raman Spectroscopy, VIS, UV and VUV Combines theoretical, computational and experimental aspects Has numerous applications in a wide range of scientific domains Edited by two leaders in this field Provides an overview of rotational, vibration, electronic and photoelectron spectroscopy

Volume 1 - Introduction: Fundamentals of Molecular Spectroscopy
Volume 2 - High-Resolution Molecular Spectroscopy: Methods and Results
Volume 3 - Special Methods & Applications