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Selected Solutions Manual for Chemistry McGraw-Hill Education
Good,No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.
Nanocharacterization Techniques Prentice Hall
An introduction to the field of molecular modelling of inorganic compounds, which should be of interest to medicinal, inorganic, co-ordination and theoretical chemists. The book provides reliable calculations of stereo-selective interactions of metal complexes with biomolecules
The Molecular Modeling Workbook for Organic Chemistry Prentice Hall
The growth in the world’s nuclear industry, motivated by peaking world oil supplies, concerns about the greenhouse effect, and domestic needs for energy independence, has resulted in a heightened focus on the need for next-generation nuclear fuel-cycle technologies. Ion Exchange and Solvent Extraction: A Series of Advances, Volume 19 provides a comprehensive look at the state of the science underlying solvent extraction in its role as the most powerful separation technique for the reprocessing of commercial spent nuclear fuel. Capturing the current technology and scientific progress as it exists today and looking ahead to potential developments, the book examines the overall state of solvent extraction in reprocessing, new molecules for increased selectivity and performance, methods for predicting extractant properties, and actinide-lanthanide group separation. The contributors also explore the simultaneous extraction of radionuclides by mixing extractants, the cause and nature of third-phase formation, the effects of radiation on the solvent and its performance, analytical techniques for measuring process concentrations, new centrifugal contactors for more efficient processing, and new chemistry using novel media. The long-term vision of many professionals in the field entails a proliferation-free nuclear energy economy in which little or no waste is stored or released into the environment and all potential energy values in spent nuclear fuel are recycled. This text opens a window on that possibility, offering insight from world leaders on the cutting edge of nuclear research.
Molecular Modeling of Inorganic Compounds Springer Science & Business Media
This volume attempts to show molecular modeling as a new multidisciplinary area of research that transcends the boundaries traditionally separating biology, chemistry and physics. To this purpose, leading scientists present applications of molecular modeling to a variety of important problems such as: drug design, protein modeling, catalyst modeling, properties of glass, mechanical properties of materials and materials design. The emphasis here is on the atomistic approach.
Molecular Modeling Basics Pearson
This accurate, reasonably priced molecular model set enables users to represent all atoms having up to 12 electrons in their valence shells -- including those which cannot be built with the most expensive sets (i.e., cyclopropane, cubane, etc.).
The Prentice Hall Molecular Model Set for Organic Chemistry Wiley-VCH
Molecular models are as vital a tool for the study of chemistry as calculators are for the study of mathematics. Molecular Visions models may be assembled in infinite combinations enabling the user to construct not only familiar configurations but also undiscovered possibilities. Models are intended to inspire the imagination, stimulate thought, and assist the visualization process. They present the user with a solid form of an abstract object that can otherwise only be visualized by the chemist. While chemistry textbooks use letters and graphics to describe molecules, molecular models make them "real". MOLECULAR VISIONS Organic Kit #3 is in a corrugated box 6"x4.5"x3.5". Atoms may be put in the box without being taken apart.
MOLECULAR STRUCTURE AND SPECTROSCOPY Springer Science & Business Media
This workbook with CD features SpartanViewTM and SpartanBuildTM software. It includes a software tutorial and numerous challenging exercises that readers can tackle to solve problems involving structure building and analysis, using the tools included in the two pieces of Spartan software. Included are the molecular model files for the activities. Free when packaged with selected Pearson textbooks. A useful workbook for chemistry courses.
Molecular Modeling on the PC William Andrew
In recent years chemical engineers have become increasingly involved in the design and synthesis of new materials and products as well as the development of biological processes and biomaterials. Such applications often demand that product properties be controlled with precision. Molecular modeling, simulating chemical and molecular structures or processes by computer, aids scientists in this endeavor. Volume 28 of Advances in Chemical Engineering presents discussions of theoretical and computational methods as well as their applications to specific technologies.
Molecular Structure and Dynamics Royal Society of Chemistry
Nanocharacterization Techniques covers the main characterization techniques used in nanomaterials and nanostructures. The chapters focus on the fundamental aspects of

characterization techniques and their distinctive approaches. Significant advances that have taken place over recent years in refining techniques are covered, and the mathematical foundations needed to use the techniques are also explained in detail. This book is an important reference for materials scientists and engineers looking for a through analysis of nanocharacterization techniques in order to establish which is best for their needs. Includes a detailed analysis of different nanocharacterization techniques, allowing readers to explore which one is best for their particular needs Provides examples of how each characterization technique has been used, giving readers a greater understanding of how each technique can be profitably used Covers the mathematical background needed to utilize each of these techniques to their best effect, meaning that readers can gain a full understanding of the theoretical principles behind each technique covered Serves as an important, go-to reference for materials scientists and engineers

Framework Molecular Models Prentice Hall

Very broad overview of the field intended for an interdisciplinary audience; Lively discussion of current challenges written in a colloquial style; Author is a rising star in this discipline; Suitably accessible for beginners and suitably rigorous for experts; Features extensive four-color illustrations; Appendices featuring homework assignments and reading lists complement the material in the main text

Molecular Modeling and Simulation CRC Press

This book explores the molecular modeling, enabling the nonspecialist to appreciate the power as well as the limitations of the computational tools available and giving a background to the methods used and how they were developed. It also provides examples of how molecular modeling has been used to address chemical questions commonly asked by the experimental chemist, and includes practical examples and case studies. 143 illus.

Chemistry Molecular Model CRC Press

The gap between introductory level textbooks and highly specialized monographs is filled by this modern textbook. It provides in one comprehensive volume the in-depth theoretical background for molecular modeling and detailed descriptions of the applications in chemistry and related fields like drug design, molecular sciences, biomedical, polymer and materials engineering. Special chapters on basic mathematics and the use of respective software tools are included. Numerous numerical examples, exercises and explanatory illustrations as well as a web site with application tools (http://www.amrita.edu/cen/ccmm) support the students and lecturers.

Prentice Hall Molecular Model Set for General and Organic Chemistry Elsevier

Molecular modeling is becoming an increasingly important part of chemical research and education as computers become faster and programs become easier to use. The results, however, have not become easier to understand. Addressing the need for a "workshop-oriented" book, Molecular Modeling Basics provides the fundamental theory needed to understand

Inorganic Chem and Molecular Model Set Pkg Wiley-VCH

This book is a practical, easy-to-use guide for readers with limited experience of molecular modelling. Unlike many other textbooks in this field, the authors avoid extensive discussion around complex mathematical foundations behind the methods, choosing instead to provide the reader with the choice of methods themselves.

Computational Chemistry and Molecular Modeling Prentice Hall

Presenting a concise, basic introduction to modelling and computational chemistry this text includes relevant introductory material to ensure greater accessibility to the subject. Provides a comprehensive introduction to this evolving and developing field Focuses on MM, MC, and MD with an entire chapter devoted to QSAR and Discovery Chemistry. Includes many real chemical applications combined with worked problems and solutions provided in each chapter Ensures that up-to-date treatment of a variety of chemical modeling techniques are introduced.

Chemical Applications of Molecular Modelling CRC Press

Although molecular modeling has been around for a while, the groundbreaking advancement of massively parallel supercomputers and novel algorithms for parallelization is shaping this field into an exciting new area. Developments in molecular modeling from experimental and computational techniques have enabled a wide range of biological applications. Responding to this renaissance, Molecular Modeling at the Atomic Scale: Methods and Applications in Quantitative Biology includes discussions of advanced techniques of molecular modeling and the latest research advancements in biomolecular applications from leading experts. The book begins with a brief introduction of major methods and applications, then covers the development of cutting-edge methods/algorithms, new polarizable force fields, and massively parallel computing techniques, followed by descriptions of how these novel techniques can be applied in various research areas in molecular biology. It also examines the self-assembly of biomacromolecules, including protein folding, RNA folding, amyloid peptide aggregation, and membrane lipid bilayer formation. Additional topics highlight biomolecular interactions, including protein interactions with DNA/RNA, membrane, ligands, and nanoparticles. Discussion of emerging topics in biomolecular modeling such as DNA sequencing with solid-state nanopores and biological water under nanoconfinement round out the coverage. This timely summary contains the perspectives of leading experts on this transformation in molecular biology and includes state-of-the-art examples of how molecular modeling approaches are being applied to critical questions in modern quantitative biology. It pulls together the latest research and applications of molecular modeling and real-world expertise that can boost your research and development of applications in this rapidly changing field.

Molecular Modelling for Beginners John Wiley & Sons

Designed for general chemistry courses that consider a lot of organic examples, or for students who plan to continue in organic chemistry. This molecular model set can be used to construct realistic scale models illustrating the molecular structures of many thousands of compounds. With it one can build molecular models of representative compounds.

Universal Molecular Models Prentice Hall

For courses in Chemistry. In 1965, George Brumlik developed the first molecular model set, Framework Molecular Models, for the sophomore student of Organic Chemistry. It proved to be the model set of choice for thousands of professors over a span of twenty-five years, and still remains popular. Now, with the introduction of the Universal Molecular Models, Dr. Brumlik has developed a sophomore-level set that once again is a first. No other model on the market today demonstrates the framework of a molecule, the space filling capacity of a molecule, and molecular orbitals. In addition, the set is more scientifically accurate than anything currently available in a student price

range. This scientifically accurate molecular model set demonstrates the framework of a molecule, the space-filling capacity of a molecule, and molecular orbitals. Effeciently designed and constructed, the UMM set is fully interchangeable with the FMM set and features color-coded atomic valence spheres and connectors, allowing students to represent all molecules having up to 12 atoms in their valence shells.

Molecular Modelling: Principles And Applications, 2/E Prentice Hall

CD-ROM contains : Access to companion website -- activities -- study and testing aids -- animations and other movies -- quizzes -- molecular models.

Molecular Modeling ... Prentice Hall

Designed to serve as a textbook for postgraduate students of physics and chemistry, this second edition improves the clarity of treatment, extends the range of topics, and includes more worked examples with a view to providing all the material needed for a course in molecular spectroscopy—from first principles to the very useful spectral data that comprise figures, charts and tables. To improve the conceptual appreciation and to help students develop more positive and realistic impressions of spectroscopy, there are two new chapters—one on the spectra of atoms and the other on laser spectroscopy. The chapter on the spectra of atoms is a detailed account of the basic principles involved in molecular spectroscopy. The chapter on laser spectroscopy covers some new experimental techniques for the investigation of the structure of atoms and molecules. Additional sections on interstellar molecules, inversion vibration of ammonia molecule, fibre-coupled Raman spectrometer, Raman microscope, supersonic beams and jet-cooling have also been included. Besides worked-out examples, an abundance of review questions, and end-of-chapter problems with answers are included to aid students in testing their knowledge of the material contained in each chapter. Solutions manual containing the complete worked-out solutions to chapter-end problems is available for instructors.