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Physical Chemistry

An Introduction to Chemistry

Provides information on the basic concepts of chemistry.

Mathematics for Quantum Chemistry

General College Chemistry

Designed for students in Nebo School District, this text covers the Utah State Core Curriculum for chemistry with few additional topics.

The School Science Review

Chemistry

Science Insights: Exploring living things

"Chemistry: Atoms First is a peer-reviewed, openly licensed introductory textbook produced through a collaborative publishing partnership between OpenStax and the University of Connecticut and UConn Undergraduate Student Government Association. This title is an adaptation of the OpenStax Chemistry text and covers scope and sequence requirements of the two-semester general chemistry course. Reordered to fit an atoms first approach, this title introduces atomic and molecular structure much earlier than the traditional approach, delaying the introduction of more abstract material so students have time to acclimate to the study of chemistry. Chemistry: Atoms First also provides a basis for understanding the application of quantitative principles to the chemistry that underlies the entire course."--Open Textbook Library.

Molecular Driving Forces

In this introduction to each of the major sectors of the chemical industry the authors cover the important chemistry, products, processes and relevant statistics. Each contributor draws on his/her extensive industrial experience to give a balanced coverage which is both easy to read and authoritative. New chapters on quality and safety issues, environmental issues and an extended chapter on chlor-alkali, sulphur and nitrogen industries, reflect the importance of these subjects today.

Technical Book Review Index

Physics and Chemistry of the Solar System focuses on planetary physics and chemistry. This book consists of 12 chapters. Chapters I to IV cover the general properties and environment of the planetary system. The solar system beyond Mars is elaborated in Chapters V to VIII, while the inner solar system is considered in Chapters XI to XII. In these chapters, this compilation specifically discusses the limitations on big bang nucleosynthesis; structure and classification of galaxies; and mass and angular momentum distribution. The radio wave propagation in space plasmas; interiors of Jupiter and Saturn; density and composition of icy satellites; and evaporation and non-gravitational forces are also deliberated. This text also explains the physical properties of meteorites; geology of the Moon; geophysical data on Mars; and search for extraterrestrial intelligence. This publication is a good reference for first-year graduate students who intend to take graduate courses in specialized areas of planetary sciences, as well as practicing Ph.D. scientists with training in physics,

chemistry, geology, astronomy, meteorology, and biology.

Biotechnology Research Abstracts

Thermodynamics, Statistical Thermodynamics, and Kinetics is a groundbreaking new text that explains core topics in depth with a focus on basic principles, applications, and modern research. The authors hone in on key concepts and cover them thoroughly and in detail - as opposed to the general, encyclopedic approach competing textbooks take. Excessive math formalism is avoided to keep readers focused on the most important concepts and to provide greater clarity. Applications woven throughout each chapter demonstrate to readers how chemical theories are used to solve real-world chemical problems in biology, environmental science, and material science. Extensive coverage of modern research and new developments in the field get readers excited about this dynamic branch of science. Quantum Chemistry and Spectroscopy is a split text (from Physical Chemistry) and is organized to facilitate "Quantum first" courses. The online Chemistry Place for Physical Chemistry features interactive problems and simulations that reinforce and build upon material included in the book. Fundamental Concepts of Thermodynamics; Heat, Work, Internal Energy, Enthalpy, and the First Law of Thermodynamics; The Importance of State Functions: Internal Energy and Enthalpy; Thermochemistry; Entropy and the Second and Third Law of Thermodynamics; Chemical Equilibrium; The Properties of Real Gases; The Relative Stability of Solids, Liquids, and Gases; Ideal and Real Solutions; Electrolyte Solutions; Electrochemical Cells, Batteries, and Fuel Cells; Probability; The Boltzmann Distribution; Ensemble and Molecular Partition Functions; Statistical Thermodynamics; Kinetic Theory of Gases; Transport Phenomena; Elementary Chemical Kinetics; Complex Reaction Mechanisms. For all readers interested in learning the core topics of quantum chemistry.

Analytical Chemistry. Determination of the Isotopic Composition. Biological Behavior. Health Protection and Safety Control

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.

Introduction to Chemistry

Physics and Chemistry of the Solar System

New Technical Books

A selective, annotated and graded list of United States publications in the physical and applied sciences

Curriculum Review

Current science

Chemistry

Ionic Equilibrium

The #1 choice for high school Chemistry.

Chemistry 2012 Student Edition (Hard Cover) Grade 11

Bishop's text shows students how to break the material of preparatory chemistry down and master it. The system of objectives tells the students exactly what they must learn in each chapter and where to find it.

The Chemical Industry

The chemical industry is changing, going beyond commodity chemicals to a palette of higher value added products. This groundbreaking book, now revised and expanded, documents this change and shows how to meet the challenges implied.

Presenting a four-step design process - needs, ideas, selection, manufacture - the authors supply readers with a simple design template that can be applied to a wide variety of products. Four new chapters on commodities, devices, molecules/drugs and microstructures show how this template can be applied to products including oxygen for emphysema patients, pharmaceuticals like taxol, dietary supplements like lutein, and beverages which are more satisfying. For different groups of products the authors supply both strategies for design and summaries of relevant science. Economic analysis is expanded, emphasizing the importance of speed-to-market, selling ideas to investors and an expectation of limited time in the market. Extra examples, homework problems and a solutions manual are available.

Journal of Scientific & Industrial Research

Holt Chemistry

Physics and Chemistry of the Solar System, 2nd Edition, is a comprehensive survey of the planetary physics and physical chemistry of our own solar system. It covers current research in these areas and the planetary sciences that have benefited from both earth-based and spacecraft-based experimentation. These experiments form the basis of this encyclopedic reference, which skillfully fuses synthesis and explanation. Detailed chapters review each of the major planetary bodies as well as asteroids, comets, and other small orbitals. Astronomers, physicists, and planetary scientists can use this state-of-the-art book for both research and teaching. This Second Edition features extensive new material, including expanded treatment of new meteorite classes, spacecraft findings from Mars Pathfinder through Mars Odyssey 2001, recent reflections on brown dwarfs, and descriptions of planned NASA, ESA, and Japanese planetary missions. * New edition features expanded treatment of new meteorite classes, the latest spacecraft findings from Mars, information about 100+ new discoveries of planets and stars, planned lunar and planetary missions, more end-of-chapter exercises, and more * Includes extensive new material and is amply illustrated throughout * Reviews each major planetary body, asteroids, comets, and other small orbitals

Chemical Engineering Education

Design Analysis of Thermal Systems

Choice

Monthly. Classified listing of references to worldwide articles dealing with all aspects of biotechnology. Also includes books and conferences. Each entry gives bibliographic information, institutional address of author(s), and abstract. Author and subject index.

EI-Hi Textbooks & Serials in Print, 2005

This book provides a readable yet rigorous introduction to analytical methods with a focus on problem-solving skills. It stresses the fundamental concepts of chemical analysis and, through examples from current journals and other science media, shows how the principles and practice of analytical chemistry are used to produce answers to questions in all areas of scientific study and practice. Features a balance of topics that is closer to contemporary analytical practice than those covered by other books. Introduces the tools that are ubiquitous in analytical chemistry e.g., statistics, sampling and sample preparation. Discusses methods depending on chemical kinetics which are so widely used in medicine and biology. Features a number of problems that call for the use of a spreadsheet to generate data, which is then plotted to show trends. Includes answers for all numerical problems in an appendix.

Chemistry

Here is the first book to introduce, at the senior-undergraduate and graduate levels, key aspects of the analysis of thermal systems appropriate for computer-aided design. Extensive examples and problems emphasize modelling and computer applications while synthesizing material on thermodynamics, heat transfer, and fluid mechanics. Features thorough coverage of second law analytical techniques, extensive material on numerical simulation and optimization, and an excellent description of cost analysis for thermal system design. Topics covered include the curvefitting of physical data, applications of the second law of thermodynamics, the concept and process of steady-state flowsheeting, the solving of n algebraic equations in n unknowns in both linear and nonlinear systems, the art of preliminary cost estimation, and techniques of optimization. Appendixes give dozens of project ideas and cover most of the introductory ideas found in an engineering economics text.

Chemistry

Annual Review of Biophysics and Biophysical Chemistry

Contemporary Chemical Analysis

Chemistry in Canada

Molecular Driving Forces, Second Edition E-book is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It demonstrates how the complex behaviors of molecules can result from a few simple physical processes, and how simple models provide surprisingly accurate insights into the workings of the molecular world. Widely adopted in its First Edition, Molecular Driving Forces is regarded by teachers and students as an accessible textbook that illuminates underlying principles and concepts. The Second Edition includes two brand new chapters: (1) "Microscopic Dynamics" introduces single molecule experiments; and (2) "Molecular Machines" considers how nanoscale machines and engines work. "The Logic of Thermodynamics" has been expanded to its own chapter and now covers heat, work, processes, pathways, and cycles. New practical applications, examples, and end-of-chapter questions are integrated throughout the revised and updated text, exploring topics in biology, environmental and energy science, and nanotechnology. Written in a clear and reader-friendly style, the book provides an excellent introduction to the subject for novices while remaining a valuable resource for experts.

Physics and Chemistry of the Solar System

Thermodynamics, Statistical Thermodynamics, and Kinetics

Chemical Product Design

Science Books & Films

Introduction to problems of molecular structure and motion covers calculus of orthogonal functions, algebra of vector spaces, and Lagrangian and Hamiltonian formulation of classical mechanics. Answers to problems. 1966 edition.

A Complete Preparation for the MCAT.: Knowledge & comprehension of science

Measurement of equilibrium state; Measurement of equilibrium constants; Mathematical methods used in equilibrium calculations; Strong acids and bases; Weak monoprotic acids and bases; Precipitation and the Solubility product; Polyprotic acids; Introduction to complex formation equilibria; Complex formation; advanced topics; Oxidation-reduction equilibria; Nonideality corrections.

Microbiology Abstracts

Russian Chemical Reviews

Cellulose Chemistry and Technology

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