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Ebook: Chemistry: The Molecular Nature of Matter and Change Elsevier
The Physics of Energy provides a comprehensive and systematic introduction to the scientific principles governing energy sources, uses, and systems. This definitive textbook traces the flow of energy from sources such as solar power, nuclear power, wind power, water power, and fossil fuels through its transformation in devices such as heat engines and electrical generators, to its uses including transportation, heating, cooling, and other applications. The flow of energy through the Earth's atmosphere and oceans, and systems issues including storage, electric grids, and efficiency and conservation are presented in a scientific context along with topics such as radiation from nuclear power and climate change from the use of fossil fuels. Students, scientists, engineers, energy industry professionals, and concerned citizens with some mathematical and scientific background who wish to understand energy systems and issues quantitatively will find this textbook of great interest.

Chemistry & Chemical Reactivity IGI Global

Outlines the concepts of chemical engineering so that non-chemical engineers can interface with and understand basic chemical engineering concepts
Overviews the difference between laboratory and industrial scale practice of chemistry, consequences of mistakes, and approaches needed to scale a lab reaction process to an operating scale
Covers basics of chemical reaction engineering, mass, energy, and fluid energy balances, how economics are scaled, and the nature of various types of flow sheets and how they are developed vs. time of a project
Details the basics of fluid flow and transport, how fluid flow is characterized and explains the difference between positive displacement and centrifugal pumps along with their limitations and safety aspects of these differences
Reviews the importance and approaches to controlling chemical processes and the safety aspects of controlling chemical processes, Reviews the important chemical engineering design aspects of unit operations including distillation, absorption and stripping, adsorption, evaporation and crystallization, drying and solids handling, polymer manufacture, and the basics of tank and agitation system design

General Chemistry Jones & Bartlett Learning

The Seventh Edition of Zumdahl and DeCoste's best-selling
INTRODUCTORY CHEMISTRY: A FOUNDATION that combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and Chemistry in Focus boxes. The Seventh Edition now adds a questioning pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art

program to better serve visual learners, and includes a significant number of revised end-of-chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Holt Chemistry Holt Rinehart & Winston

Providing equal coverage of organic, inorganic and physical chemistry - coverage that is uniformly authoritative - this text builds on what students may already know and tackles their misunderstandings and misconceptions. The authors achieve unrivalled accessibility through carefully-worded explanations, the introduction of concepts in a logical and progressive manner, and the use of annotated diagrams and step-by-step worked examples. Students are encouraged to engage with the text and appreciate the central role that chemistry plays in our lives through the unique use of real-world examples and visuals. Frequent cross-references highlight the connections between each strand of chemistry and explain the relationship between the topics, so students can develop an understanding of the subject as a whole.

Human Biology John Wiley & Sons

Written for the introductory human biology course, the Seventh Edition of Chiras' acclaimed text maintains the original organizational theme of homeostasis presented in previous editions to present the fundamental concepts of mammalian biology and human structure and function. Chiras discusses the scientific process in a thought-provoking way that asks students to become deeper, more critical thinkers. The focus on health and homeostasis allows students to learn key concepts while also assessing their own health needs. An updated and enhanced ancillary package includes numerous student and instructor tools to help students get the most out of their course!

BSCS Biology Cengage Learning

EBOOK: GENERAL CHEMISTRY, THE ESSENTIAL CONCEPTS

Houghton Mifflin College Division

[This program] encourages you to investigate how organisms and their behaviors are shaped by their environments. You will ask questions about what happens as organisms and their environments interact. You will be introduced to the big pictures showing how different local environments fit together to form patterns of life on Earth. -Foreword.

Chemoinformatics Approaches to Virtual Screening Cengage Learning

A study guide in question and answer format for basic chemistry.

Concepts in Biology' 2007 Ed. 2007 Edition John Wiley & Sons

A text that truly embodies its name, CHEMISTRY: PRINCIPLES AND PRACTICE connects the chemistry students learn in the classroom (principles) with real-world uses of chemistry (practice). The authors accomplish this by starting each chapter with an application drawn from a chemical field of interest and revisiting that application throughout the chapter. The Case Studies, Practice of Chemistry essays, and Ethics in Chemistry questions reinforce the connection of chemistry topics to areas such as forensics, organic chemistry, biochemistry, and industry. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introductory Chemistry Learning Matters

The papers collected together in this volume constitute a review of recent research on the response of condensed matter to dynamic high pressures and temperatures. Included are sections on equations of state, phase transitions, material properties, explosive behavior, measurement techniques, and optical and laser studies. Recent developments in this area such as studies of impact and penetration phenomenology, the development of materials, especially ceramics and molecular dynamics and Monte Carlo simulations are also covered. These latest advances, in addition to the many other results and topics covered by the authors, serve to make this volume the most authoritative source for the shock wave physics community.

Chemical Engineering for Non-Chemical Engineers Holt Chemistry

Holt Chemistry Holt Rinehart & Winston Concepts in Biology' 2007 Ed. 2007 Edition Rex

Bookstore, Inc. Chemistry 2e Introductory Chemistry Cengage Learning

Chemistry - Study Guide to Accompany Moore/Davies/Collins Lippincott Williams & Wilkins
Connect students in grades 7 and up with science using Science Tutor: Chemistry. This effective 48-page resource provides additional concept reinforcement for students who struggle in chemistry. Each lesson in this book contains an Absorb section to instruct and simplify concepts and an Apply section to help students grasp concepts on their own. The book covers topics such as matter, physical and chemical changes, mixtures and solutions, the periodic table, atomic structure, and radioactivity. It is great for use in the classroom and at home!

Chemistry 2e Oxford University Press

Steve and Susan Zumdahl's texts focus on helping students build critical thinking skills through the

process of becoming independent problem-solvers. They help students learn to think like a chemist so they can apply the problem solving process to all aspects of their lives. In CHEMISTRY: AN ATOMS FIRST APPROACH, the Zumdahls use a meaningful approach that begins with the atom and proceeds through the concept of molecules, structure, and bonding, to more complex materials and their properties. Because this approach differs from what most students have experienced in high school courses, it encourages them to focus on conceptual learning early in the course, rather than relying on memorization and a plug and chug method of problem solving that even the best students can fall back on when confronted with familiar material. The atoms first organization provides an opportunity for students to use the tools of critical thinkers: to ask questions, to apply rules and models and to evaluate outcomes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Nanotechnology: Concepts, Methodologies, Tools, and Applications CRC Press

Introduces new chemistry concepts and provides activities so that students can practice and grasp the concepts. Key terms are highlighted in the text as well as in a comprehensive glossary. Answer keys are included.

Chemical Principles Rex Bookstore, Inc.

This textbook covers the physical and chemical aspects of estuaries, the biology and ecology of key organisms, the flow of organic matter through estuaries, and human interactions, such as the environmental impact of fisheries on estuaries and the effects of global climate change on these important ecosystems. Each chapter will begin with basic concepts and then move on to describing applications and current practice. This new edition is being authored by a team of world experts from the estuarine science community.

Human Biology Mark Twain Media

Make the essential principles of massage therapy more approachable! Covering massage fundamentals, techniques, and anatomy and physiology, *Massage Therapy: Principles and Practice, 6th Edition* prepares you for success in class, on exams, and in practice settings. The new edition of this student friendly text includes more than 700 images, expanded information on the latest sanitation protocols, critical thinking questions at the end of each chapter, and updated pathologies which reflect what you will encounter in the field. UPDATED pathologies ensure they are current and reflect what you will see in the field as a practitioner. UPDATED Research Literacy and evidence-informed practice skills, emphasize how to locate and apply scientific data and the latest research findings in your massage practice. Licensing and Certification Practice Exams on Evolve mimics the major high-stakes exams in format and content, builds confidence, and helps increase pass rates. Complete anatomy and physiology section, in addition to material on techniques and foundations, you all the information you need in just one book. Robust art program enhances your understanding and comprehension of each topic presented through visual representation. Case studies challenge you to think critically and apply your understanding to realistic scenarios, foster open-mindedness, cultural competency, and stimulate dialogue. Profile boxes provide an inspirational, real-world perspective on massage practice from some of the most respected authorities in massage and bodywork. Clinical Massage chapter focuses on massage in therapeutic and palliative settings such as hospitals, chiropractic and physical therapy offices, nursing homes, and hospice care centers to broaden your career potential. Business chapter loaded with skills to help make you more marketable and better prepared for today's competitive job market. NEW! UPDATED information throughout, including the latest sanitation protocols, ensures the most current, accurate, and applicable content is provided and is appropriate for passing exams and going straight into practice. NEW! Critical thinking questions at the end of the chapters help you develop clinical reasoning skills. NEW! Maps to FSMTB's MBLEx exam, the Entry Level Analysis Project (ELAP), and Massage Therapy Body of Knowledge (MTBOK) to illustrate that our content is in line with the core entry-level massage therapy curriculum. NEW! Revised Kinesiology images include colored indications of origins and insertions.

Teaching Innovation in University Education: Case Studies and Main Practices Elsevier

An insightful analysis of confined chemical systems for theoretical and experimental scientists
Chemical Reactivity in Confined Systems: Theory and Applications presents a theoretical basis for the molecular phenomena observed in confined spaces. The book highlights state-of-the-art theoretical and computational approaches, with a focus on obtaining physically relevant clarification of the subject to enable the reader to build an appreciation of underlying chemical principles. The book includes real-world examples of confined systems that highlight how the reactivity of atoms and molecules change upon encapsulation. Chapters include discussions on recent developments related to several host-guest systems, including cucurbit[n]uril, ExBox+4, clathrate hydrates, octa acid cavitand, metal organic frameworks (MOFs), covalent organic frameworks (COFs), zeolites, fullerenes, and carbon nanotubes. Readers will learn how to carry out new calculations to understand the physicochemical behavior of confined quantum systems. Topics covered include: A thorough introduction to global reactivity descriptors, including electronegativity, hardness, and electrophilicity An exploration of the Fukui function, as well as dual descriptors, higher order derivatives, and reactivity through information theory A practical discussion

of spin dependent reactivity and temperature dependent reactivity Concise treatments of population analysis, reaction force, electron localization functions, and the solvent effect on reactivity Perfect for academic researchers and graduate students in theoretical and computational chemistry and confined chemical systems, Chemical Reactivity in Confined Systems: Theory and Applications will also earn a place in the libraries of professionals working in the areas of catalysis, supramolecular chemistry, and porous materials.

Chemistry Mark Twain Media

Dan Chiras once again offers a refreshing and student-friendly introduction to the structure, function, health, and homeostasis of the human body in a modernized ninth edition of Human Biology. This acclaimed text explores life from a variety of levels and perspectives, including cellular/molecular, by body system, through disease, and within the environment.

Chemistry: Principles and Practice Cengage Learning

The budding field of nanotechnology offers enormous potential for advances in medical science, engineering, transportation, computers, and many other industries. As this growing field solidifies, these technological advances may soon become a reality. Nanoscience and Advancing Computational Methods in Chemistry: Research Progress provides innovative chapters covering the growth of educational, scientific, and industrial research activities among chemical engineers and provides a medium for mutual communication between international academia and the industry. This book publishes significant research reporting new methodologies and important applications in the fields of chemical informatics and discusses latest coverage of chemical databases and the development of new experimental methods.

Key Concept Review Guide for General Chemistry McGraw Hill

"This book is the first monograph to summarize the innovative applications of efficient chemoinformatics approaches towards screening large chemical libraries. The focus on virtual screening expands chemoinformatics beyond its traditional boundaries as a synthetic and data-analytical area of research towards its recognition as a predictive and decision-support scientific discipline." "The monograph covers chemoinformatics approaches applicable to virtual screening of very large collections of chemical compounds to identify novel biologically active molecules. The discussed approaches rely on chemoinformatics concepts such as the representation of molecules using multiple descriptors of chemical structures, advanced chemical similarity calculations in multidimensional descriptor spaces, and machine learning and data mining approaches. Ligand-based approaches, which are in the focus of this work, are more computationally efficient compared to structure-based virtual screening."--BOOK JACKET.