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General, Organic, and Biological Chemistry - John R. Amend 1993-01-01

General Chemistry - Ralph H. Petrucci 2017

Chemical Reaction Engineering - Octave Levenspiel 1998-09-01

Chemical reaction engineering is concerned with the exploitation of chemical reactions on a commercial scale. Its goal is the successful design and operation of chemical reactors. This text emphasizes qualitative arguments, simple design methods, graphical procedures, and frequent comparison of capabilities of the major reactor types. Simple ideas are treated first, and are then extended to the more complex.

Introduction to Organic Chemistry - William H. Brown 2004-08-25

This book enables readers to see the connections in organic chemistry and understand the logic. Reaction mechanisms are grouped together to reflect logical relationships. Discusses organic chemistry as it is applied to real-world compounds and problems. Electrostatic potential plots are added throughout the text to enhance the recognition and importance of molecular polarity. Presents problems in a new "Looking-Ahead" section at the end of each chapter that show how concepts constantly build upon each other. Converts many of the structural formulas to a line-angle format in order to make structural formulas both easier to recognize and easier to draw.

Catalogo dei libri in commercio - 2003

Organic Chemistry - William H. Brown 2017-02-21

ORGANIC CHEMISTRY is a student-friendly, cutting edge introduction for chemistry, health, and the biological sciences majors. In the Eighth Edition, award-winning authors build on unified mechanistic themes, focused problem-solving, applied pharmaceutical problems and biological examples. Stepwise reaction mechanisms emphasize similarities among mechanisms using four traits: breaking a bond, making a new bond, adding a proton, and taking a proton away. Pull-out organic chemistry reaction roadmaps designed stepwise by chapter help students devise their own reaction pathways. Additional features designed to ensure student success include in-margin highlighted integral concepts, new end-of-chapter study guides, and worked examples. This edition also includes brand new author-created videos. Emphasizing "how-to" skills, this edition is packed with challenging synthesis problems, medicinal chemistry problems, and unique roadmap problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Natural History of Beer - Rob DeSalle 2019-01-01

A celebration of beer--its science, its history, and its impact on human culture

What can beer teach us about biology, history, and the natural world? From ancient Mesopotamian fermentation practices to the resurgent American craft brewery, Rob DeSalle and Ian Tattersall peruse the historical record and traverse the globe for engaging and often surprising stories about beer. They explain how we came to drink beer, what ingredients combine to give beers their distinctive flavors, how beer's chemistry works at the molecular level, and how various societies have regulated the production and consumption of beer. Drawing from such diverse subject areas as animal behavior, ecology, history, archaeology, chemistry, sociology, law, genetics, physiology, neurobiology, and more, DeSalle and Tattersall entertain and inform with their engaging stories of beer throughout human history and the science behind it all. Readers are invited to grab a beer and explore the fascinating history of its creation.

General Chemistry - Ralph H. Petrucci 2010-05

Bioactive Compounds from Marine-Derived *Aspergillus*, *Penicillium*, *Talaromyces* and *Trichoderma* Species - Rosario Nicoletti 2019-05-27

Dear Colleagues, The importance of bioactive natural compounds in pharmacology and other biotechnological fields has stimulated the scientific community to explore new environmental contexts and their associated microbial diversity. As the largest frontier in biological discovery, the sea represents a significant source of organisms producing novel secondary metabolites with interesting bioactivities. Of the available biological material, fungi have received increasing consideration, both due to their pervasive occurrence in varying habitats as well as their aptitude to develop symbiotic associations with higher organisms in numerous contexts. In many cases, fungal strains have been reported as the real producers of drugs originally extracted from marine plants and animals. Due to the constantly increasing number of marine-derived fungi yielding valuable bioactive products, it is now appropriate to present these findings to a recipient audience in a more organized form. This Special Issue of Marine Drugs, entitled "Bioactive Compounds from Marine-Derived *Aspergillus*, *Penicillium*, *Talaromyces*, and *Trichoderma* Species", is specifically focused on a few genera of ascomycetous fungi which are widespread regarding marine contexts and are particularly inclined to establishing symbiotic relationships. For this project, we welcome submissions of full research papers, short notes, and review articles reporting the discovery and characterization of products showing antibiotic, antitumor, antiviral, insecticidal, antimalarial, antifouling, antioxidant, plant growth-promoting and/or resistance-inducing, as well as other less-exploited activities. Dr. Rosario Nicoletti Dr. Francesco Vinale Guest Editors

Curves and Surfaces - M. Abate 2012-06-11

The book provides an introduction to Differential Geometry of Curves and Surfaces.

The theory of curves starts with a discussion of possible definitions of the concept of curve, proving in particular the classification of 1-dimensional manifolds. We then present the classical local theory of parametrized plane and space curves (curves in n-dimensional space are discussed in the complementary material): curvature, torsion, Frenet's formulas and the fundamental theorem of the local theory of curves. Then, after a self-contained presentation of degree theory for continuous self-maps of the circumference, we study the global theory of plane curves, introducing winding and rotation numbers, and proving the Jordan curve theorem for curves of class C^2 , and Hopf theorem on the rotation number of closed simple curves. The local theory of surfaces begins with a comparison of the concept of parametrized (i.e., immersed) surface with the concept of regular (i.e., embedded) surface. We then develop the basic differential geometry of surfaces in R^3 : definitions, examples, differentiable maps and functions, tangent vectors (presented both as vectors tangent to curves in the surface and as derivations on germs of differentiable functions; we shall consistently use both approaches in the whole book) and orientation. Next we study the several notions of curvature on a surface, stressing both the geometrical meaning of the objects introduced and the algebraic/analytical methods needed to study them via the Gauss map, up to the proof of Gauss' Teorema Egregium. Then we introduce vector fields on a surface (flow, first integrals, integral curves) and geodesics (definition, basic properties, geodesic curvature, and, in the complementary material, a full proof of minimizing properties of geodesics and of the Hopf-Rinow theorem for surfaces). Then we shall present a proof of the celebrated Gauss-Bonnet theorem, both in its local and in its global form, using basic properties (fully proved in the complementary material) of triangulations of surfaces. As an application, we shall prove the Poincaré-Hopf theorem on zeroes of vector fields. Finally, the last chapter will be devoted to several important results on the global theory of surfaces, like for instance the characterization of surfaces with constant Gaussian curvature, and the orientability of compact surfaces in R^3 .

Headway Digital. Intermediate. Student's Book. Per Le Scuole Superiori - John Soars 2010

Physical methods in inorganic chemistry - Franca Morazzoni 2018-12-04

Analytical Chemistry for Cultural Heritage - Rocco Mazzeo 2017-01-25

The series Topics in Current Chemistry Collections presents critical reviews from the journal Topics in Current Chemistry organized in topical volumes. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data, but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field.

Chemistry & Chemical Reactivity - John C. Kotz 2014-01-24

Succeed in chemistry with the clear explanations, problem-solving strategies, and dynamic study tools of CHEMISTRY & CHEMICAL REACTIVITY, 9e. Combining thorough instruction with the powerful multimedia tools you need to develop a deeper understanding of general chemistry concepts, the text emphasizes the visual nature of chemistry, illustrating the close interrelationship of the macroscopic, symbolic, and particulate levels of chemistry. The art program illustrates each of these levels in engaging detail--and is fully integrated with key media components. In addition access to OWLv2 may be purchased separately or at a special price if packaged with this text. OWLv2 is an online homework and tutorial system that helps you maximize your study time and improve your success in the course. OWLv2 includes an interactive eBook, as well as hundreds of guided simulations, animations, and video clips. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Principles of Human Physiology - Cindy L. Stanfield 2017

Designed to address the challenges instructors face in teaching students with varied backgrounds and learning styles, this text provides features such as chemistry review boxes to provide resources for students, while toolboxes and discovery boxes allow instructors the option to delve into more detail about physiology topics.

Fundamentals of Organic Chemistry - 2021

Rivista Di Fisica, Matematica E Scienze Naturali - 1910

Principles of Organic Synthesis - Richard O.C. Norman 2017-10-19

This book is designed for those who have had no more than a brief introduction to organic chemistry and who require a broad understanding of the subject. The book is in two parts. In Part I, reaction mechanism is set in its wider context of the basic principles and concepts that underlie chemical reactions: chemical thermodynamics, structural theory, theories of reaction kinetics, mechanism itself and stereochemistry. In Part II these principles and concepts are applied to the formation of particular types of bonds, groupings, and compounds. The final chapter in Part II describes the planning and detailed execution of the multi-step syntheses of several complex, naturally occurring compounds.

Analytical Chemistry - Douglas A. Skoog 2000

Prepare for exams and succeed in your analytical chemistry course with this comprehensive solutions manual! Featuring worked out-solutions to the problems in ANALYTICAL CHEMISTRY: AN INTRODUCTION, 7th Edition, this manual shows you how to approach and solve problems using the same step-by-step explanations found in your textbook examples.

Agridatabank 93 - Istituto nazionale di economia agraria 1993

Organic Chemistry - T. W. Graham Solomons 1999-08-10

Gli archivi della scienza - Amedeo Benedetti 2003

Becker's World of the Cell - Jeff Hardin 2015

Revised edition of: World of the cell / Wayne M. Becker [and others]. 7th ed.

Preparing for the BMAT - Nick Sample 2005

Helps students to develop the thinking skills required for success in the BMAT, which is required by seven universities for entrance onto competitive courses,

such as medicine and veterinary science.

Fundamentals of Chemistry - Ralph A. Burns 1995

The Sociology of Childhood - William A. Corsaro 2017-06-10

William A. Corsaro's groundbreaking text, *The Sociology of Childhood*, discusses children and childhood from a sociological perspective. Corsaro provides in-depth coverage of the social theories of childhood, the peer cultures and social issues of children and youth, children and childhood within the frameworks of culture and history, and social problems and the future of childhood. The Fifth Edition has been thoroughly updated to incorporate the latest research and the most pertinent information so readers can engage in powerful discussions on a wide array of topics.

Soil Chemistry - Hinrich L. Bohn 2002-11-11

Comprehensive, up-to-date coverage of the basics of soil chemistry. Although only a meter in depth over the earth's surface, soil is key to sustaining life-affecting air and water quality, the growth of plants and crops, and the health of the entire planet. The complex interplay among organic and inorganic solids, air, water, microorganisms, and plant roots in soil is the subject of *Soil Chemistry*, a reference pivotal to understanding soil processes and problems. Thoroughly reorganized for ease of use, this updated Third Edition of *Soil Chemistry* summarizes the important research and fundamental knowledge in the field in a single, readily usable text, including: Soil-ion interactions Biogeological cycles and pollution Water and soil solutions Oxidation and reduction Inorganic solid phase and organic matter in soil Weathering and soil development Cation retention (exchange) Anion and molecular retention Acid and salt-affected soils New to the Third Edition is an enhanced emphasis on soil solution chemistry and expanded coverage of phosphate chemistry and the chemical principles of the aqueous phase. At the same time, the book has retained the clear examination of the fundamentals of the science of soil that has distinguished earlier editions. Complete with SI units and end-of-chapter study questions, *Soil Chemistry* is an excellent introductory resource for students studying this crucial topic.

Chemistry - Nivaldo J. Tro 2011

Chemistry - Vincenzo Balzani 2014

Many people are convinced that, among other courses taught in schools, chemistry is a difficult and complex subject. This book sets out to introduce chemistry concepts and demystify chemistry showing how it is a major part of our everyday lives. It introduces the readers into the wonderful world of atoms and molecules and chemical reactions whilst showing that chemistry is centrally important but also an emerging science and defines what the practising chemist does. The book also examines curiosity, creativity, fascination, poetry, beauty, and ethics in science. The concepts of chemistry are to be understood first and then learned. Accordingly, the book presents arguments and suggestions to be considered when teaching chemistry in secondary schools, together with a simple teaching approach so that students can understand and come to appreciate the language of chemistry and its experimental practices. Originally published in Italian, 'Chimica - leggere e scrivere il libro della Natura' was among the finalists of the 2013 Italian Award for popularization of science. The English translation has been sensitively achieved to enable the book to reach young students and teachers of chemistry in a positive way.

Chemistry - William L. Masterton 1993

This new edition of *CHEMISTRY: PRINCIPLES AND REACTIONS* continues to provide students with the "core" material essential to understanding the principles of general chemistry. Masterton and Hurley cover the basics without sacrificing the essentials, appealing to several markets. Appropriate for either a one- or two-semester course, *CHEMISTRY: PRINCIPLES AND REACTIONS*, Fifth Edition is three hundred pages shorter than most general chemistry texts and lives up to its long-standing reputation as THE student-oriented text. Though this text is shorter in length than most other General Chemistry books, it is not lower in level and with the addition of the large volume of content provided by the revolutionary GENERAL CHEMISTRY INTERACTIVE 3.0 CD-ROM that is included with every copy, it has a depth and breadth rivaling much longer books.

Organic Chemistry - John McMurry 2006

Renowned for his student-friendly writing style, John McMurry introduces a new way to teach organic chemistry: *ORGANIC CHEMISTRY: A BIOLOGICAL APPROACH*. Traditional foundations of organic chemistry are enhanced by a consistent integration of biological examples and discussion of the organic chemistry of biological pathways. This innovative text is coupled with media integration through *Organic ChemistryNow* and *Organic OWL*, providing instructors and students the tools they need to succeed.

The Elements of Physical Chemistry - Peter Atkins 2005-04-29

A brief version of the best-selling physical chemistry book. Its ideal for the one-semester physical chemistry course, providing an introduction to the essentials of the subject without too much math.

Pensare in matematica - Giorgio Israel 2012

Biology - Eldra Solomon 1996

Analytical Chemistry and Quantitative Analysis - David S. Hage 2011

This title presents concepts and procedures in a manner that reflects the practice and applications of these methods in today's analytical laboratories. The fundamental principles of laboratory techniques for chemical analysis are introduced, along with issues to consider in the appropriate selection and use of these methods.

Human Anatomy - Frederic Martini 2012

Celebrated for its atlas-style format, appropriately detailed anatomical illustrations, and exceptionally clear photographs of tissues and cadavers, the Seventh Edition of the award-winning *Human Anatomy* presents practical applications of anatomy and physiology in a highly visual format. Select Clinical Notes feature dynamic layouts that integrate text with visuals for easy reading. Clinical Cases relate clinical stories that integrate text with patient photos and diagnostic images for applied learning. Time-saving study tools, including end-of-chapter practice and review, help students arrive at a complete understanding of human anatomy. This is the standalone book. If you want the package order: 0321687949 / 9780321687944 *Human Anatomy with MasteringA&P(tm)* Package consists of: 0321688155 / 9780321688156 *Human* 0321724569 / 9780321724564 *Martini's Atlas of the Human Body* 0321734890 / 9780321734891 *MasteringA&P(tm)* with Pearson eText Student Access Code Card for *Human Anatomy* 0321754182 / 9780321754189 *Practice Anatomy Lab 3*. 0321766296 / 9780321766298 *Wrap Card for Human Anatomy with MasteringA&P*

Theory of Electrical Machines - Claudio Bruzzese 2022-01-01

This book comprehends basic and advanced theoretical tools for the analysis of structure and operation of power electrical machines. The principal machine

typologies are discussed: single and three phase transformer, induction machine, and synchronous machine. The first chapter resumes important notions of electromagnetism, oriented to the study of electrical machines: starting from the properties of Maxwell's equations in matter (in particular in magnetic materials), electric and magnetic integral laws and their application to practical electric and magnetic circuits are explained. In the subsequent chapters the electrical machines are analyzed in first from a physical point of view, and then suitable models, equations, and equivalent circuits are derived from the fundamental principles. The AC operation is deepened, by using both time-domain and frequency domain equations and equivalent circuits, since this is the main operating modality. The text is mainly targeted to students enrolled in a Master degree in Electrical Engineering, and is designed to be used for a one- or two-semester course in electrical machines. The prerequisites for effective use of the text are the courses of mathematical analysis, physics, and circuit theory.

A Short History of Chemistry - Isaac Asimov 1965-01-01

Examines the development of the basic principles of chemistry from the Bronze Age to the present day

Principles of Modern Chemistry - David W. Oxtoby 1998-07-01

PRINCIPLES OF MODERN CHEMISTRY has dominated the honors and high mainstream general chemistry courses and is considered the standard for the course. The fifth

edition is a substantial revision that maintains the rigor of previous editions but reflects the exciting modern developments taking place in chemistry today. Authors David W. Oxtoby and H. P. Gillis provide a unique approach to learning chemical principles that emphasizes the total scientific process 'from observation to application' placing general chemistry into a complete perspective for serious-minded science and engineering students. Chemical principles are illustrated by the use of modern materials, comparable to equipment found in the scientific industry. Students are therefore exposed to chemistry and its applications beyond the classroom. This text is perfect for those instructors who are looking for a more advanced general chemistry textbook.

Thinking Skills Coursebook - Mark Dawes 2018-09-13

This series helps students and teachers following the Cambridge AS & A Level Thinking Skills syllabus (9694) for examination from 2020. Universities and employers have high expectations for 21st century learners. They want students who can think critically, collaborate efficiently and produce creative solutions to problems. With more practice questions than the previous edition, this coursebook provides opportunities for students to improve both their critical thinking and problem solving skills. It walks students through different scenarios - such as drawing conclusions from arguments - explaining the thinking process involved and helping to increase confidence when thinking independently. Suggested answers to the coursebook questions are in the teacher's resource.