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Our high school chemistry program has been redesigned and updated to give your students the right balance of concepts and applications in a program that provides more active learning, more real-world connections, and more engaging content. A revised and enhanced text, designed especially for high school, helps students actively develop and apply their understanding of chemical concepts. Hands-on labs and activities emphasize cutting-edge applications and help students connect concepts to the real world. A new, captivating design, clear writing style, and innovative technology resources support your students in getting the most out of their textbook. - Publisher.

This 3-volume set covers new research and applications on physical chemical for engineering and applied sciences. Volume 1 discusses the principles and technological implications of industrial chemistry and biochemical physics. Volume 2 presents some fascinating phenomena associated with the remarkable features of high performance polymers and also

This comprehensive handbook presents the full potential of modern acetylene chemistry, from organic synthesis through materials science to bioorganic chemistry. K. Houk, H. Hopf, P. Stang, K. M. Nicholas, N. Schore, M. Regitz, K. C. Nicolaou, R. Gleiter, L. Scott, R. Grubbs, H. Iwamura, J. Moore, and F. Diederich - internationally renowned authors introduce the reader, in a didactically skilful manner, to the state-of-the-art in alkyne chemistry. Emphasis is placed on presenting carefully selected and instructive examples as well as essential references to the original literature. Special benefits: Each chapter is rounded off by useful experimental

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procedures.

Issues in Chemistry and General Chemical Research: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Chirality. The editors have built Issues in Chemistry and General Chemical Research: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chirality in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Chemistry and General Chemical Research: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Now you can score higher in chemistry Every high school requires a course in chemistry for graduation, and many universities require the course for majors in medicine, engineering, biology, and various other sciences. U Can: Chemistry I For Dummies offers all the how-to content you need to enhance your classroom learning, simplify complicated topics, and deepen your understanding of often-intimidating course material. Plus, you'll find easy-to-follow examples and hundreds of practice problems—as well as access to 1,001 additional Chemistry I practice problems online! As more and more students enroll in chemistry courses,, the need for a trusted and accessible resource to aid in study has never been greater. That's where U Can: Chemistry I For Dummies comes in! If you're struggling in the classroom, this hands-on, friendly guide makes it easy to

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conquer chemistry. Simplifies basic chemistry principles
Clearly explains the concepts of matter and energy, atoms
and molecules, and acids and bases Helps you tackle
problems you may face in your Chemistry I course Combines
'how-to' with 'try it' to form one perfect resource for chemistry
students If you're confused by chemistry and want to increase
your chances of scoring your very best at exam time, U Can:
Chemistry I For Dummies shows you that you can!

This popular and comprehensive textbook provides all the
basic information on inorganic chemistry that undergraduates
need to know. For this sixth edition, the contents have
undergone a complete revision to reflect progress in areas of
research, new and modified techniques and their
applications, and use of software packages. Introduction to
Modern Inorganic Chemistry begins by explaining the
electronic structure and properties of atoms, then describes
the principles of bonding in diatomic and polyatomic covalent
molecules, the solid state, and solution chemistry. Further on
in the book, the general properties of the periodic table are
studied along with specific elements and groups such as
hydrogen, the 's' elements, the lanthanides, the actinides, the
transition metals, and the "p" block. Simple and advanced
examples are mixed throughout to increase the depth of
students' understanding. This edition has a completely new
layout including revised artwork, case study boxes, technical
notes, and examples. All of the problems have been revised
and extended and include notes to assist with approaches
and solutions. It is an excellent tool to help students see how
inorganic chemistry applies to medicine, the environment, and
biological topics.

Organic Synthesis, Fourth Edition, provides a
reaction-based approach to this important branch of
organic chemistry. Updated and accessible, this

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eagerly-awaited revision offers a comprehensive foundation for graduate students coming from disparate backgrounds and knowledge levels, to provide them with critical working knowledge of basic reactions, stereochemistry and conformational principles. This reliable resource uniquely incorporates molecular modeling content, problems, and visualizations, and includes reaction examples and homework problems drawn from the latest in the current literature. In the Fourth Edition, the organization of the book has been improved to better serve students and professors and accommodate important updates in the field. The first chapter reviews basic retrosynthesis, conformations and stereochemistry. The next three chapters provide an introduction to and a review of functional group exchange reactions; these are followed by chapters reviewing protecting groups, oxidation and reduction reactions and reagents, hydroboration, selectivity in reactions. A separate chapter discusses strategies of organic synthesis, and the book then delves deeper in teaching the reactions required to actually complete a synthesis. Carbon-carbon bond formation reactions using both nucleophilic carbon reactions are presented, and then electrophilic carbon reactions, followed by pericyclic reactions and radical and carbene reactions. The important organometallic reactions have been consolidated into a single chapter. Finally, the chapter on

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combinatorial chemistry has been removed from the strategies chapter and placed in a separate chapter, along with valuable and forward-looking content on green organic chemistry, process chemistry and continuous flow chemistry. Throughout the text, Organic Synthesis, Fourth Edition utilizes Spartan-generated molecular models, class tested content, and useful pedagogical features to aid student study and retention, including Chapter Review Questions, and Homework Problems. PowerPoint® presentations and answer keys are also available online to support instructors. Fully revised and updated throughout, and reorganized into 19 chapters for a more cogent and versatile presentation of concepts. Includes reaction examples taken from literature research reported between 2010-2015. Features new full-color art and new chapter content on process chemistry and green organic chemistry. Offers valuable study and teaching tools, including Chapter Review Questions and Homework Problems for students; Lecture presentations and other useful material for qualified course instructors.

This text is designed for a rigorous course in introductory chemistry. Its central theme is to challenge students to think and question while providing a sound foundation in the principles of chemistry.

This fully updated Eighth Edition of CHEMICAL

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PRINCIPLES provides a unique organization and a rigorous but understandable introduction to chemistry that emphasizes conceptual understanding and the importance of models. Known for helping students develop a qualitative, conceptual foundation that gets them thinking like chemists, this market-leading text is designed for students with solid mathematical preparation. The Eighth Edition features a new section on Solving a Complex Problem that discusses and illustrates how to solve problems in a flexible, creative way based on understanding the fundamental ideas of chemistry and asking and answering key questions. The book is also enhanced by an increase of problem solving techniques in the solutions to the Examples, new student learning aids, new “Chemical Insights” and “Chemistry Explorers” boxes, and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Long considered the standard for honors and high-level mainstream general chemistry courses, PRINCIPLES OF MODERN CHEMISTRY continues to set the standard as the most modern, rigorous, and chemically and mathematically accurate text on the market. This authoritative text features an "atoms first" approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure

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(Chapter 6), Electrochemistry (Chapter 17), and Molecular Spectroscopy and Photochemistry (Chapter 20). In addition, the text utilizes mathematically accurate and artistic atomic and molecular orbital art, and is student friendly without compromising its rigor. End-of-chapter study aids focus on only the most important key objectives, equations and concepts, making it easier for students to locate chapter content, while applications to a wide range of disciplines, such as biology, chemical engineering, biochemistry, and medicine deepen students' understanding of the relevance of chemistry beyond the classroom.

"Access to 2 full-length practice tests; extensive Physics review covering electricity, mechanics, kinematics, and more; strategies for Math, Reading, and Science sections"--Cover.

This book describes the fascinating chemistry of the many kinds of organic compounds of hypervalent iodine. Each chapter deals with a particular iodine compound or families of compounds which have been used as reagents in a plethora of useful transformations. These include assorted oxidation, such as with the precious Dess-Martin reagent as well as with a wide range of further reactions.

Prominent features of hypervalent iodine reagents derived from iodobenzene are: ready availability, operational simplicity, mild reaction conditions, and high efficiency. They are environmentally safe and

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can be recycled. New species may be easily prepared by introducing substituents in the benzene ring or changing the ligand attached to iodine. Their combination with other reagents broadens considerably their synthetic potential. Today, no synthetic chemist can afford to ignore the valuable hypervalent iodine reagents. Key Features * Features up-to-date coverage of a wide range of topics * Includes many tables featuring a diversity of reactivity, and a comprehensive index * Acts as a comprehensive, up-to-date reference on all aspects of hypervalent iodine chemistry * Contains a section on unusual efficiency of hypervalent iodine reactions

The aim of this book is to provide both a rigorous view and a more practical, understandable view of industrial chemistry and biochemical physics. This book is geared toward readers with both direct and lateral interest in the discipline. This volume is structured into different parts devoted to industrial chemistry and biochemical physics and their applications. Every section of the book has been expanded, where relevant, to take account of significant new discoveries and realizations of the importance of key concepts. Furthermore, emphases are placed on the underlying fundamentals and on acquisition of a broad and comprehensive grasp of the field as a whole. With contributions from experts from both the industry and academia, this book presents the latest developments in the identified

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areas. This book incorporates appropriate case studies, explanatory notes, and schematics for more clarity and better understanding. This new book:

- Highlights some important areas of current interest in biochemical physics and chemical processes
- Focuses on topics with more advanced methods
- Emphasizes precise mathematical development and actual experimental details
- Analyzes theories to formulate and prove the physicochemical principles
- Provides an up-to-date and thorough exposition of the present state of the art of complex materials

Topics include:

- Photoelectrochemical properties of films of extra-coordinated tetrapyrrole compounds and their relationship with the quantum chemical parameters of the molecules
- Bio-structural energy criteria of functional states in normal and pathological conditions
- The ozone resistance of covulcanizates butadiene–nitrile rubbers with chlorinated ethylene–propylene–diene elastomers
- Ways of regulation of release of medicinal substances from chitosan films
- Environmental durability of powder polyester paint coatings
- Ozone decomposition
- Design and synthesis of its derivative with enhanced potential to scavenge hypochlorite radical scavenging capacity of n-(2-mercapto-2-methylpropionyl)-L-cysteine
- Bacterial poly(3-hydroxybutyrate) as a biodegradable polymer for biomedicine
- Designing, analysis, and industrial use of the dynamic spray scrubber

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Magnetic properties of organic paramagnet • The effect of antioxidant drug mexidol on bioenergetic processes and nitric oxide formation in the animal tissues

Fundamentals of Chemistry, Fourth Edition covers the fundamentals of chemistry. The book describes the formation of ionic and covalent bonds; the Lewis theory of bonding; resonance; and the shape of molecules. The book then discusses the theory and some applications of the four kinds of spectroscopy: ultraviolet, infrared, nuclear (proton) magnetic resonance, and mass. Topics that combine environmental significance with descriptive chemistry, including atmospheric pollution from automobile exhaust; the metallurgy of iron and aluminum; corrosion; reactions involving ozone in the upper atmosphere; and the methods of controlling the pollution of air and water, are also considered. Chemists and students taking courses related to chemistry and environmental chemistry will find the book invaluable.

Noboru Hirota has produced a major historical analysis of how the field of chemistry has evolved over centuries. Spanning more than eight hundred pages, this book presents an exhaustive study of the field, showing how ground-breaking discoveries were made and innovative theories were constructed, with personal portrayals and interesting anecdotes of pioneering scholars. Positioning chemistry carefully

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within the natural sciences, the author rejects the traditional separation of physics, chemistry and biology, defines chemistry broadly as the 'science of atoms and molecules, ' and traces its dynamic history with an emphasis on 20th century developments and more recent findings. Professor Hirota himself has spearheaded research in physical chemistry for more than four decades in Japan and the United States, with cutting-edge engagement with magnetic resonance, spectroscopy, and photochemistry. This publication invites specialized researchers to traverse the pathways along which the subject developed into its present form and to understand how their own research fits into the broad scope of science as a whole. *****Chosen as an Outstanding Academic Title for 2017 by Choice Magazine!! In addition, the Choice subject editors have chosen "A History of Modern Chemistry" as one of their top favorite 25 titles! ****"There are many books on the history of chemistry, but few that provide a comprehensive overview of the field up to the modern day. This book admirably fills that need. Overall, this is an excellent book and is strongly recommended." --Choice, Vol. 54, No. 7, March 2017 [Subject: History of Science, Chemistry Holt McDougal Modern ChemistryModern ChemistryFundamentals of ChemistryAcademic Press

Their Eyes Were Watching God is a 1937 novel by

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African-American writer Zora Neale Hurston. It is considered a classic of the Harlem Renaissance of the 1920s, and it is likely Hurston's best known work. Succeed in the course with this student-friendly, proven text. Designed throughout to help you master key concepts and improve your problem-solving skills, CHEMISTRY, Seventh Edition includes a running margin glossary, end-of-chapter in-text mini study guides, a focus on how to skills, and more in-chapter examples and problems than any text on the market. To help you understand reaction mechanisms, the authors offset them in a stepwise fashion and emphasize similarities between related mechanisms using just four different characteristics: breaking a bond, making a new bond, adding a proton, and taking a proton away. Thoroughly updated throughout, the book offers numerous biological examples for premed students, unique roadmap problems, a wide range of in-text learning tools, and integration with an online homework and tutorial system, which now includes an interactive multimedia eBook. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

An information retrieval (IR) system is designed to analyse, process and store sources of information and retrieve those that match a particular user's

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requirements. A bewildering range of techniques is now available to the information professional attempting to successfully retrieve information. It is recognized that today's information professionals need to concentrate their efforts on learning the techniques of computerized IR. However, it is this book's contention that it also benefits them to learn the theory, techniques and tools that constitute the traditional approaches to the organization and processing of information. In fact much of this knowledge may still be applicable in the storage and retrieval of electronic information in digital library environments. The fully revised third edition of this highly regarded textbook has been thoroughly updated to incorporate major changes in this rapidly expanding field since the second edition in 2004, and a complete new chapter on citation indexing has been added. Unique in its scope, the book covers the whole spectrum of information storage and retrieval, including: users of IR and IR options; database technology; bibliographic formats; cataloguing and metadata; subject analysis and representation; automatic indexing and file organization; vocabulary control; abstracts and indexing; searching and retrieval; user-centred models of IR and user interfaces; evaluation of IR systems and evaluation experiments; online and CD-ROM IR; multimedia IR; hypertext and mark-up languages; web IR; intelligent IR; natural language

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processing and its applications in IR; citation analysis and IR; IR in digital libraries; and trends in IR research. Illustrated with many examples and comprehensively referenced for an international audience, this is an indispensable textbook for students of library and information studies. It is also an invaluable aid for information practitioners wishing to brush up on their skills and keep up to date with the latest techniques.

Recent Methodology in Chemical Sciences provides an eclectic survey of contemporary problems in experimental, theoretical, and applied chemistry. This book covers recent trends in research with the different domain of the chemical sciences. The chapters, written by knowledgeable researchers, provide different insights to the modern-day research in the domain of spectroscopy, plasma modification, and theoretical and computational analysis of chemical problems. It covers descriptions of experimental techniques, discussions on theoretical modeling, and much more.

Created by the continuous feedback of a student-tested, faculty-approved process, CHEM2 delivers a visually appealing, succinct print component, tear-out review cards for students and instructors, and a consistent online offering with OWLv2 that includes an eBook in addition to a set of interactive digital tools -- all at a value-based price and proven to increase retention and outcomes. CHEM2 also offers

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Go Chemistry and Thinkwell mini-video lectures, as well as online homework available through the OWL learning system. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The eleventh edition was carefully reviewed with an eye toward strengthening the content available in OWLv2, end-of-chapter questions, and updating the presentation. Nomenclature changes and the adoption of IUPAC periodic table conventions are highlights of the narrative revisions, along with changes to the discussion of d orbitals. In-text examples have been reformatted to facilitate learning, and the accompanying Interactive Examples in OWLv2 have been redesigned to better parallel the problem-solving approach in the narrative. New Capstone Problems have been added to a number of chapters. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

From ancient Greek theory to the explosive discoveries of the 20th century, this authoritative history shows how major chemists, their discoveries, and political, economic, and social developments transformed chemistry into a modern science. 209 illustrations. 14 tables. Bibliographies. Indices. Appendices.

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Modern Inorganic Synthetic Chemistry, Second Edition captures, in five distinct sections, the latest advancements in inorganic synthetic chemistry, providing materials chemists, chemical engineers, and materials scientists with a valuable reference source to help them advance their research efforts and achieve breakthroughs. Section one includes six chapters centering on synthetic chemistry under specific conditions, such as high-temperature, low-temperature and cryogenic, hydrothermal and solvothermal, high-pressure, photochemical and fusion conditions. Section two focuses on the synthesis and related chemistry problems of highly distinct categories of inorganic compounds, including superheavy elements, coordination compounds and coordination polymers, cluster compounds, organometallic compounds, inorganic polymers, and nonstoichiometric compounds. Section three elaborates on the synthetic chemistry of five important classes of inorganic functional materials, namely, ordered porous materials, carbon materials, advanced ceramic materials, host-guest materials, and hierarchically structured materials. Section four consists of four chapters where the synthesis of functional inorganic aggregates is discussed, giving special attention to the growth of single crystals, assembly of nanomaterials, and preparation of amorphous materials and membranes. The new edition's biggest highlight is Section five where the

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frontier in inorganic synthetic chemistry is reviewed by focusing on biomimetic synthesis and rationally designed synthesis. Focuses on the chemistry of inorganic synthesis, assembly, and organization of wide-ranging inorganic systems Covers all major methodologies of inorganic synthesis Provides state-of-the-art synthetic methods Includes real examples in the organization of complex inorganic functional materials Contains more than 4000 references that are all highly reflective of the latest advancement in inorganic synthetic chemistry Presents a comprehensive coverage of the key issues involved in modern inorganic synthetic chemistry as written by experts in the field

Thoroughly updated with the latest research and developments, CHEMISTRY IN FOCUS develops students' appreciation for the molecular world and emphasizes the fundamental role it plays in their daily lives. By clearly identifying and explaining connections between the molecular world and microscopic world, the book helps students understand the major scientific, technological, and environmental issues affecting our society. Innovative study aids and technological tools help students maximize their success in the course. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Although chemistry has been the target of numerous public moral debates for over a century, there is still no academic field of ethics of chemistry to develop an ethically balanced view of the discipline. And while ethics courses are increasingly demanded for science and engineering students

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in many countries, chemistry is still lagging behind because of a lack of appropriate teaching material. This volume fills both gaps by establishing the scope of ethics of chemistry and providing a case-based approach to teaching, thereby also narrating a cultural history of chemistry. From poison gas in WWI to climate engineering of the future, this volume covers the most important historical cases of chemistry. It draws lessons from major disasters of the past, such as in Bhopal and Love Canal, or from thalidomide, Agent Orange, and DDT. It further introduces ethical arguments pro and con by discussing issues about bisphenol-A, polyvinyl chloride, and rare earth elements; as well as of contested chemical projects such as human enhancement, the creation of artificial life, and patents on human DNA. Moreover, it illustrates chemical engagements in preventing hazards, from the prediction of ozone depletion, to Green Chemistry, and research in recycling, industrial substance substitution, and clean-up. Students also learn about codes of conduct and chemical regulations. An international team of experts narrate the historical cases and analyse their ethical dimensions. All cases are suitable for undergraduate teaching, either in classes of ethics, history of chemistry, or in chemistry classes proper.

Modern Methods for Theoretical Physical Chemistry of Biopolymers provides an interesting selection of contributions from an international team of researchers in theoretical chemistry. This book is extremely useful for tackling the complicated scientific problems connected with biopolymers' physics and chemistry. The applications of both the classical molecular-mechanical and molecular-dynamical methods and the quantum chemical methods needed for bridging the gap to structural and dynamical properties dependent on electron dynamics are explained. Also included are ways to deal with complex problems when all three approaches need to be

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considered at the same time. The book gives a rich spectrum of applications: from theoretical considerations of how ATP is produced and used as 'energy currency' in the living cell, to the effects of subtle solvent influence on properties of biopolymers and how structural changes in DNA during single-molecule manipulation may be interpreted. · Presents modern successes and trends in theoretical physical chemistry/chemical physics of biopolymers · Topics covered are of relevant importance to rapidly developing areas in science such as nanotechnology and molecular medicine · Quality selection of contributions from renowned scientists in the field

This work is the accompanying teacher's book to the student book and gives the answers to all the questions in the student book together with details of how the student book delivers all the content statements in Higher chemistry.

Organic Chemistry: The Name Game: Modern Coined Terms and their Origins is a lighthearted take on the usually difficult and systematic nomenclature found in organic chemistry. However, despite the lightheartedness, the book does not lose its purpose, which is to serve as a source of information on this particular subject of organic chemistry. The book, arranged into themes, discusses some organic compounds and how they are named based on their structure, makeup, and components. The text also explains the use of Greek and Latin prefixes in nomenclature and many other principles in nomenclature. The book also includes an appendix that contains very useful information on nomenclature, such as the etymology of certain element and chemical names, numerical prefixes, and the Greek alphabet. The text is not only for students who wish to be familiarized with a different style of organic chemistry nomenclature, but also for professors who aim to give students an enjoyable yet memorable learning experience.

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Written for general chemistry courses, 'Chemical Principles' helps students develop chemical insight by showing the connection between chemical principles and their applications.

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