

Principles Of Chemistry 3rd Edition

This brief, paperback version of the best-selling Earth Science by Lutgens and Tarbuck is designed for introductory courses in Earth science. The text's highly visual, non-technical survey emphasizes broad, up-to-date coverage of basic topics and principles in geology, oceanography, meteorology, and astronomy. A flexible design lends itself to the diversity of Earth science courses in both content and approach. As in previous editions, the main focus is to foster student understanding of basic Earth science principles. Used by over 1.5 million science students, the

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Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences. This is the product access code card for MasteringX and does not include the actual bound book. Package contains: MasteringGeology standalone access card

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

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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.

Wine Science, Third Edition, covers the three pillars of wine science – grape culture, wine production, and sensory evaluation. It takes readers on a scientific tour into the world of wine by detailing the latest discoveries in this exciting industry. From grape anatomy to wine and health, this book includes coverage of material not found in other enology or viticulture texts including details on cork and oak, specialized wine making procedures, and historical origins of procedures. Author Ronald Jackson uniquely breaks down sophisticated techniques,

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allowing the reader to easily understand wine science processes. This updated edition covers the chemistry of red wine color, origin of grape varieties, wine language, significance of color and other biasing factors to wine perception, various meanings and significance of wine oxidation. It includes significant additional coverage on brandy and ice wine production as well as new illustrations and color photos. This book is recommended for grape growers, fermentation technologists; students of enology and viticulture, enologists, and viticulturalists. NEW to this edition: * Extensive revision and additions on: chemistry of red wine color, origin of grape varieties, wine language, significance of color and other biasing factors to wine perception, various meanings and

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significance of wine oxidation *
Significant additional coverage on brandy and ice wine production * New illustrations and color photos

A Concise Introduction to General, Organic, and Biological Chemistry

General, Organic, and Biological Chemistry strengthens the evidenced strategy of integrating general, organic, and biological chemistry for a focused introduction to the fundamental connections between chemistry and life. The streamlined approach offers readers a clear path through the content over a single semester. The Third Edition integrates essential topics more effectively than any text on the market, covering core concepts in each discipline in just 12 comprehensive chapters. Practical connections and applications show readers how to use their

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understanding of chemistry in everyday life and future health professions. With an emphasis on problem solving and critical thinking, the book promotes active and attentive learning, which now include NEW! media assets, Practicing the Concepts. Featuring coauthor Todd Deal, these 3 to 5 minute videos explore key concepts in general, organic, and biological chemistry that readers traditionally find difficult. Readers gain skills and deepen their knowledge as they watch the videos and then practice what they have learned with Pause & Predict problems and a series of follow up multiple-choice questions. The Third Edition places a greater emphasis on matching what professors teach in the classroom by increasing the coverage of biochemical applications in each

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Chemistry

A Molecular Approach, Second Edition
[by] Nivaldo J. Tro

Textbook of Veterinary Physiological

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Chemistry

Physical Chemistry

Emphasises on

contemporary

applications and an

intuitive problem-

solving approach that

helps students discover

the exciting potential

of chemical science.

This book incorporates

fresh applications from

the three major areas of

modern research:

materials, environmental

chemistry, and

biological science.

This successful textbook

undergoes a change of

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character in the third edition. Where earlier editions covered organic polymer chemistry, the third edition covers both physical and organic chemistry. Thus kinetics and thermodynamics of polymerization reactions are discussed. This edition is also distinct from all other polymer textbooks because of its coverage of such currently hot topics as photonic polymers, electricity conducting polymers, polymeric

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materials for immobilization of reagents and drug release, organic solar cells, organic light emitting diodes. This textbook contains review questions at the end of every chapter, references for further reading, and numerous examples of commercially important processes. For laboratory courses in General Chemistry Engaging students in real-world applications Laboratory Manual for Chemistry: Structure and

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Properties provides a series of experiments written to correspond with an atoms-first approach. The experiments connect to the daily lives of students with engaging, real-world applications and incorporate household items such as Coca-Cola®, fertilizer, light bulbs, and aluminum cans. The investigations challenge students while exposing them to recent advances in science. The labs also promote critical

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thinking by placing the experiments in the context of a practical problem and emphasize data collection and analysis versus mere step-by-step instruction. Some of the exercises are inquiry-driven, while others provide a straightforward method for introducing new laboratory techniques. This manual includes a sample of problem-based and traditional experiments to give instructors flexibility.

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Adapted from Nivaldo J. Tro's best-selling general chemistry book, Principles of Chemistry: A Molecular Approach focuses exclusively on the core concepts of general chemistry without sacrificing depth or relevance. Tro's unprecedented two- and three-column problem-solving approach is used throughout to give students sufficient practice in this fundamental skill. A unique integration of macroscopic, molecular,

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and symbolic illustrations helps students to visualize the various dimensions of chemistry; Tro's engaging writing style captures student's attention with relevant applications. The Second Edition offers a wealth of new and revised problems, approximately 50 new conceptual connections, an updated art program throughout, and is available with MasteringChemistry®, the most advanced online tutorial and assessment

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package contains:*

*Principles of Chemistry:
A Molecular Approach,
Second Edition*

Selected Solutions

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Pyrotechnics*

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*Principles and
Applications*

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Key Benefit: For those

taking the one-semester Human Anatomy course Praised for its atlas-style format, appropriately detailed anatomical illustrations, and exceptionally clear photographs of tissues and cadavers, Human Anatomy is now more visual and interactive. The Eighth Edition includes new one- and two-page Spotlight Figures that seamlessly integrate text and visuals to guide students through complex topics. New QR codes let you use a smart phones to link directly from

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giving you additional views
for learning bones and
muscles. The end-of-chapter
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help you remember chapter
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Text-media integration: New QR codes in the chapters on the skeletal and muscular

systems let you use your smart phones to link directly from figures in the book to figures in the Practice Anatomy Lab (PAL) virtual anatomy program, giving them additional views to help you learn bones and muscles. Time-saving Navigation and Study Tools: Navigate through difficult human anatomy topics through both the book and MasteringA&P. Note: You are purchasing a standalone product; MasteringA&P does not come packaged with this content. If you would like to purchase both the physical

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read, classify, and create a
problem-solving list; and
practice problem-solving**

skills, each chapter provides study objectives and a summary of the text, followed by sample problems with detailed solutions, as well as true/false questions and a self test, with all answers provided at the end of the chapter.

Environmental Organic Chemistry focuses on environmental factors that govern the processes that determine the fate of organic chemicals in natural and engineered systems. The information discovered is then applied to quantitatively assessing the

environmental behaviour of organic chemicals. Now in its 2nd edition this book takes a more holistic view on physical-chemical properties of organic compounds. It includes new topics that address aspects of gas/solid partitioning, bioaccumulation, and transformations in the atmosphere. Structures chapters into basic and sophisticated sections Contains illustrative examples, problems and case studies Examines the fundamental aspects of organic, physical and

**inorganic chemistry -
applied to environmentally
relevant problems Addresses
problems and case studies in
one volume**

**Elementary Principles of
Chemical Processes, 4th
Edition Student**

**International Version
prepares students to
formulate and solve material
and energy balances in
chemical process systems
and lays the foundation for
subsequent courses in
chemical engineering. The
text provides a realistic,
informative, and positive
introduction to the practice**

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of chemical engineering.

Principles of Organic

Synthesis

Basic Principles, Concepts

and Applications in

Chemistry

Basic Principles and Theory,

Second Edition

Fundamental Principles of

Polymeric Materials

Introducing Inorganic,

Organic and Physical

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Introduction to

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3rd Edition provides a

comprehensive account of

the fundamental

principles underlying

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*Polarizable force fields
Tight-binding DFT More
extensive DFT
functionals, excited
states and time
dependent molecular
properties Accelerated*

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*Molecular Dynamics
methods Tensor
decomposition methods
Cluster analysis Reduced
scaling and reduced
prefactor methods
Additional information
is available at: www.wiley.com/go/jensen/computationalchemistry3
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content as the
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relevant, problem-
solving approach to
chemistry The Third
Edition of Principles of
Chemistry: A Molecular
Approach presents core
concepts without
sacrificing rigor,
enabling students to
make connections between
chemistry and their
lives or intended
careers. Drawing upon
his classroom experience
as an award-winning*

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educator, Professor Tro extends chemistry to the student's world by capturing student attention with examples of everyday processes and a captivating writing style.

Throughout this student-friendly text, chemistry is presented visually through multi-level images that help students see the connections between the world around them (macroscopic), the atoms and molecules that compose the world

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(molecular), and the formulas they write down on paper (symbolic). The Third Edition improves upon the hallmark features of the text and adds new assets—Self Assessment Quizzes, Interactive Worked Examples, and Key Concept Videos—creating the best learning resource available for general chemistry students. Also Available with MasteringChemistry MasteringChemistry from Pearson is the leading online homework,

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tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content.

Instructors ensure students arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics(tm). Students can further master concepts after class

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through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making

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learning more personal than ever-before, during, and after class. Written by experienced experts in molecular modeling, this books describes the basics to the extent that is necessary if one wants to be able to reliably judge the results from molecular modeling calculations. Its main objective is the description of the various pitfalls to be avoided. Without unnecessary overhead it leads the reader from

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small molecules to the
modeling of proteins and
other relevant
biomolecules. A textbook
for beginners as well as
an invaluable reference
for all those dealing
with molecular modeling
in their daily work!*

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life, and history -- The
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climate change --
Chemistry of the
troposphere -- Chemistry
of the stratosphere --
Analysis of air and air*

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*pollutants -- Water
resources -- Water
pollution and water
treatment -- Analysis of
water and wastewater --
Fossil fuels : our major
source of energy --
Nuclear power -- Energy
sources for the future
-- Inorganic metals in
the environment --
Organic chemicals in the
environment --
Insecticides,
herbicides, and insect
control -- Toxicology --
Asbestos -- The disposal
of dangerous wastes.
Principles of Food*

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Science

***Principles of Inorganic
Materials Design***

***Introduction to
Computational Chemistry***

Thermodynamics

***Principles of Polymer
Chemistry***

Nuclear magnetic resonance (NMR) spectroscopy is one of the most powerful and widely used techniques in chemical research for investigating structures and dynamics of molecules. Advanced methods can even be utilized for structure determinations of biopolymers, for example proteins or nucleic acids. NMR is also used in medicine for magnetic resonance imaging (MRI). The method is based on spectral lines of different atomic

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nuclei that are excited when a strong magnetic field and a radiofrequency transmitter are applied. The method is very sensitive to the features of molecular structure because also the neighboring atoms influence the signals from individual nuclei and this is important for determining the 3D-structure of molecules. This new edition of the popular classic has a clear style and a highly practical, mostly non-mathematical approach. Many examples are taken from organic and organometallic chemistry, making this book an invaluable guide to undergraduate and graduate students of organic chemistry, biochemistry, spectroscopy or physical chemistry, and to researchers using this well-established and extremely important technique. Problems and solutions are included.

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Previous edition by Laurence M. Harwood, Christopher J. Moody, and Jonathan M. Percy.

Supramolecular chemistry is ' chemistry beyond the molecule ' - the chemistry of molecular assemblies and intermolecular bonds. It is one of today ' s fastest growing disciplines, crossing a range of subjects from biological chemistry to materials science; and from synthesis to spectroscopy. Supramolecular Chemistry is an up-to-date, integrated textbook that tells the newcomer to the field everything they need to know to get started. Assuming little in the way of prior knowledge, the book covers the concepts behind the subject, its breadth, applications and the latest contemporary thinking in the area. It also includes coverage of the more important experimental and

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instrumental techniques needed by supramolecular chemists. The book has been thoroughly updated for this second edition. In addition to the strengths of the very popular first edition, this comprehensive new version expands coverage into a broad range of emerging areas. Clear explanations of both fundamental and nascent concepts are supplemented by up-to-date coverage of exciting emerging trends in the literature. Numerous examples and problems are included throughout the book. A system of “ key references ” allows rapid access to the secondary literature, and of course comprehensive primary literature citations are provided. A selection of the topics covered is listed below. Cation, anion, ion-pair and molecular host-guest chemistry Crystal

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engineering Topological entanglement
Clathrates Self-assembly Molecular
devices Dendrimers Supramolecular
polymers Microfabrication
Nanoparticles Chemical emergence
Metal-organic frameworks Gels Ionic
liquids Supramolecular catalysis
Molecular electronics Polymorphism
Gas sorption Anion-pinteractions
Nanochemistry Supramolecular
Chemistry is a must for both students
new to the field and for experienced
researchers wanting to explore the
origins and wider context of their
work. Review: "At just under 1000
pages, the second edition of Steed and
Atwood's Supramolecular Chemistry is
the most comprehensive overview of
the area available in textbook
form...highly recommended."
—Chemistry World, August 2009
This book provides a concise overview

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of thermodynamics, and is written in a manner which makes the difficult subject matter understandable.

Thermodynamics is systematic in its presentation and covers many subjects that are generally not dealt with in competing books such as: Carathéodory's approach to the Second Law, the general theory of phase transitions, the origin of phase diagrams, the treatment of matter subjected to a variety of external fields, and the subject of irreversible thermodynamics. The book provides a first-principles, postulational, self-contained description of physical and chemical processes. Designed both as a textbook and as a monograph, the book stresses the fundamental principles, the logical development of the subject matter, and the applications in a variety of disciplines.

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This revised edition is based on teaching experience in the classroom, and incorporates many exercises in varying degrees of sophistication. The stress laid on a didactic, logical presentation, and on the relation between theory and experiment should provide a reader with a more intuitive understanding of the basic principles. Graduate students and professional chemists in physical chemistry and inorganic chemistry, as well as graduate students and professionals in physics who wish to acquire a more sophisticated overview of thermodynamics and related subject matter will find this book extremely helpful. Key Features *

- * Takes the reader through various steps to understanding:
- * Review of fundamentals
- * Development of subject matter
- * Applications in a

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variety of disciplines

Human Anatomy

Principles of Medical Biochemistry E-Book

NMR Spectroscopy

Supramolecular Chemistry

Principles Characterizing Physical and Chemical Processes

This innovative, pedagogically driven text explains difficult concepts in a student-oriented manner. The book offers a rigorous and accessible treatment of general chemistry in the context of relevance. Chemistry is presented visually through multi-level images--macroscopic, molecular and symbolic representations--helping students see the connections among the formulas (symbolic), the world around them (macroscopic), and the atoms and molecules that make up the world

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(molecular). KEY TOPICS: Units of Measurement for Physical and Chemical Change; Atoms and Elements; Molecules, Compounds, and Nomenclature; Chemical Reactions and Stoichiometry; Gases; Thermochemistry; The Quantum-Mechanical Model of the Atom; Periodic Properties of the Elements; Chemical Bonding I: Lewis Theory; Chemical Bonding II: Molecular Shapes, Valence Bond Theory, and Molecular Orbital Theory; Liquids, Solids, and Intermolecular Forces; Solutions; Chemical Kinetics; Chemical Equilibrium; Acids and Bases; Aqueous Ionic Equilibrium; Gibbs Energy and Thermodynamics; Electrochemistry; Radioactivity and Nuclear Chemistry; Organic Chemistry I: Structures; Organic Chemistry II:

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content with minimal emphasis on

pedagogic learning aids. This more

streamlined approach to learning

appeals to today's efficiency-minded,

value-conscious instructors and students

without sacrificing depth, clarity, or

rigor.

Primarily driven by advancing

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technology and concerns for safety, advancement in the world of pyrotechnics and high-energy materials has exploded in the past 25 years. The promulgation of new government regulations places new and more stringent restrictions on the materials that may be used in energetic mixtures. These regulations now mandate numerous training programs, and initiate other actions, such as OSHA's Process Safety Management standard, intended to eliminate accidents and incidents. Unfortunately, the US lacks an organized, broad-range academic program to cover the science and use of energetic materials and educate the next generation of pyrotechnicians. Designed as a bridge to allow a smooth and confident transition for personnel

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coming from a chemistry background into the practical world of explosives, Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition emphasizes basic chemical principles alongside practical, hands-on knowledge in the preparation of energetic mixtures. It examines the interactions between and adaptations of pyrotechnics to changing technology in areas such as obscuration science and low-signature flame emission. Much more than a simple how-to guide, the book discusses chemical and pyrotechnic principles, components of high-energy mixtures, and elements of ignition, propagation, and sensitivity. It offers heat compositions, including ignition mixes, delays, thermites, and propellants and investigates the production of smoke and sound as well

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as light and color. Promoting the growth and expansion of pyrotechnics as a science, Chemistry of Pyrotechnics: Basic Principles and Theory, Second Edition provides practitioners with the ability to apply chemical principles and logic to energetic materials and thereby make the field as productive, useful, and safe as possible.

"Chapter 26 [...] was contributed by Warren Hehre."

Elementary Principles of Chemical Processes

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MWH's Water Treatment

A Molecular Approach, Books a la Carte Edition

Chemistry3

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For sample chapters, a video interview with David Hillis, and more information, visit www.whfreeman.com/hillispreview. Sinauer Associates and W.H. Freeman are proud to introduce Principles of Life. Written in the spirit of the reform movement that is reinvigorating the introductory majors course, Principles of Life cuts through the thicket of excessive detail and factual minutiae to focus on what matters most in the study of biology today. Students explore the most essential biological ideas and information in the context of the field's defining experiments, and are actively engaged in analyzing research data. The result is a

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textbook that is hundreds of pages shorter (and significantly less expensive) than the current majors introductory books. Principles of Food Science incorporates science concepts into a lab-oriented foods class. This text shows how the laws of science are at work in foods prepared at home and by the food industry. Each chapter includes engaging features focusing on such areas as current research, technology, and nutrition news. Through lab experiments in the text and Lab Manual, students will practice scientific and sensory evaluation of foods. They will discover how nutrients and other food components illustrate basic

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chemistry concepts. They will examine the positive and negative impacts microorganisms have on the food supply. Students will also explore the variety of careers available to workers with a food science background.

the definitive guide to the theory and practice of water treatment engineering THIS NEWLY REVISED EDITION of the classic reference provides complete, up-to-date coverage of both theory and practice of water treatment system design. The Third Edition brings the field up to date, addressing new regulatory requirements, ongoing environmental concerns, and the emergence of pharmacological

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agents and other new chemical constituents in water. Written by some of the foremost experts in the field of public water supply, Water Treatment, Third Edition maintains the book's broad scope and reach, while reorganizing the material for even greater clarity and readability. Topics span from the fundamentals of water chemistry and microbiology to the latest methods for detecting constituents in water, leading-edge technologies for implementing water treatment processes, and the increasingly important topic of managing residuals from water treatment plants. Along with hundreds of illustrations, photographs, and

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extensive tables listing chemical properties and design data, this volume: Introduces a number of new topics such as advanced oxidation and enhanced coagulation Discusses treatment strategies for removing pharmaceuticals and personal care products Examines advanced treatment technologies such as membrane filtration, reverse osmosis, and ozone addition Details reverse osmosis applications for brackish groundwater, wastewater, and other water sources Provides new case studies demonstrating the synthesis of full-scale treatment trains A must-have resource for engineers designing or operating

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water treatment plants, Water Treatment, Third Edition is also useful for students of civil, environmental, and water resources engineering.

Chemistry3 establishes the fundamental principles of all three strands of chemistry; organic, inorganic and physical. Using carefully-worded explanations, annotated diagrams and worked examples, it builds on what students have learned at school to present an approachable introduction to chemistry and its relevance to everyday life.

Principles of Environmental Chemistry

A Molecular Approach

Foundations of Earth Science

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Structure and Properties *Molecular Modeling*

Principles of Medical Biochemistry condenses the information you need into a comprehensive, focused, clinically-oriented textbook. Drs. Gerhard Meisenberg and William H. Simmons covers the latest developments in the field, including genome research, the molecular basis of genetic diseases, techniques of DNA sequencing and molecular diagnosis, and more. An updated and expanded collection of figures and access to USMLE test questions, clinical case studies, more online at www.studentconsult.com make

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this the ideal resource for understanding all aspects of biochemistry needed in medicine. Access the complete contents online at www.studentconsult.com, with downloadable illustrations, 150 USMLE-style test questions, 20 clinical case studies, chapter summaries, and integration links to related subjects. Understand biochemistry, cell biology, and genetics together in context through an integrated approach. Get only the information you need for your course with comprehensive yet focused coverage of relevant topics. Review and reinforce your learning using the glossary

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of technical terms, highlighted in the text and with interactive features online. Tap into the most up-to-date coverage of new developments in genome research, the molecular basis of genetic diseases, techniques of DNA sequencing and molecular diagnosis, RNA interference as a mechanism both for regulation of gene expression and for anti-viral defense, and more. Gain a clear visual understanding through new and updated figures that provide current and relevant guidance. Make the link between basic science and clinical medicine with new **Clinical Example** boxes in

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nearly every chapter.

Principles of Chemistry
Molecular Approach
Pearson Education

A unique interdisciplinary approach to inorganic materials design Textbooks intended for the training of chemists in the inorganic materials field often omit many relevant topics. With its interdisciplinary approach, this book fills that gap by presenting concepts from chemistry, physics, materials science, metallurgy, and ceramics in a unified treatment targeted towards the chemistry audience.

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Semiconductors, metal alloys and intermetallics, as well as ceramic substances are covered. Accordingly, the book should also be useful to students and working professionals in a variety of other disciplines. This book discusses a number of topics that are pertinent to the design of new inorganic materials but are typically not covered in standard solid-state chemistry books. The authors start with an introduction to structure at the mesoscopic level and progress to smaller-length scales. Next, detailed consideration is given to both phenomenological and

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atomistic-level descriptions of transport properties, the metal-nonmetal transition, magnetic and dielectric properties, optical properties, and mechanical properties. Finally, the authors present introductions to phase equilibria, synthesis, and nanomaterials. Other features include: * Worked examples demonstrating concepts unfamiliar to the chemist * Extensive references to related literature, leading readers to more in-depth coverage of particular topics * Biographies introducing the reader to great contributors to the field of inorganic

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materials science in the twentieth century. With their interdisciplinary approach, the authors have set the groundwork for communication and understanding among professionals in varied disciplines who are involved with inorganic materials engineering. Armed with this publication, students and researchers in inorganic and physical chemistry, physics, materials science, and engineering will be better equipped to face today's complex design challenges. This textbook is appropriate for senior-level undergraduate and

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