

Chemistry 13 Edition

Physical Chemistry for the Biosciences has been optimized for a one-semester introductory course in physical chemistry for students of biosciences.

In recent years C-glycoside chemistry has been one of the main topics in carbohydrate chemistry, not only because of the synthetic challenges posed, but also because C-glycosides have the potential to serve as carbohydrate analogues resistant to metabolic processes. Consequently, this class of compounds is currently receiving much

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interest as a potential source of therapeutic agents for clinical use. This book provides a broad coverage of the various synthetic methods available for the preparation of C-glycosides, and illustrates the interesting breadth of connections between carbohydrate chemistry and modern general synthetic organic chemistry by including topics such as transition-metal catalysis, radical chemistry, cycloaddition and rearrangement processes. In addition, in the final chapter of the book, the syntheses of C-di and trisaccharides reported through 1994 are reviewed. This well organised account of the

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synthetic chemistry in this field will prove to be very valuable to a wide range of researchers and advanced students, both as an introduction to the topic and for reference. Answers to the odd numbered topical exercises plus selected general exercises, about 1100 in all, are provided ... --Introduction.

Ideas of Quantum Chemistry

Part 2: Atoms First

AP Chemistry

Descriptive Inorganic Chemistry

Chang's best-selling general chemistry textbook takes a traditional approach and is often considered a student and

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teacher favorite. The book features a straightforward, clear writing style and proven problem-solving strategies. It continues the tradition of providing a firm foundation in chemical concepts and principles while presenting a broad range of topics in a clear, concise manner.

Organic Chemistry: Structure, Mechanism, Synthesis, Second Edition, provides basic principles of this fascinating and challenging science, which lies at the interface of physical and biological sciences. Offering accessible language and engaging examples and illustrations, this valuable introduction for the in-depth chemistry course engages students and gives future and new scientists a new approach

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to understanding, rather than merely memorizing the key concepts underpinning this fundamental area. The book builds in a logical way from chemical bonding to resulting molecular structures, to the corresponding physical, chemical and biological properties of those molecules. The book explores how molecular structure determines reaction mechanisms, from the smallest to the largest molecules—which in turn determine strategies for organic synthesis. The book then describes the synthetic principles which extend to every aspect of synthesis, from drug design to the methods cells employ to synthesize the molecules of which they are made. These relationships form a continuous

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narrative throughout the book, in which principles logically evolve from one to the next, from the simplest to the most complex examples, with abundant connections between the theory and applications. Featuring in-book solutions and instructor PowerPoint slides, this Second Edition offers an updated and improved option for students in the two-semester course and for scientists who require a high quality introduction or refresher in the subject. Offers improvements for the two-semester course sequence and valuable updates including two new chapters on lipids and nucleic acids Features biochemistry and biological examples highlighted throughout the book, making the information

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relevant and engaging to readers of all backgrounds and interests Includes a valuable and highly-praised chapter on organometallic chemistry not found in other standard references

Designed for the two-semester general chemistry course, Chang's best-selling textbook continues to take a traditional approach and is often considered a student and teacher favorite. The book features a straightforward, clear writing style and proven problem-solving strategies. It continues the tradition of providing a firm foundation in chemical concepts and principles while presenting a broad range of topics in a clear, concise manner. The tradition of

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"Chemistry" has a new addition with co-author, Kenneth Goldsby from Florida State University, adding variations to the 11th edition. The organization of the chapter order has changed with nuclear chemistry moving up in the chapter order. There is a new problem type - Interpreting, Modeling, and Estimating - fully demonstrating what a real life chemist does on a daily basis. The authors have added over 340 new problems to the book. The new edition of "Chemistry" continues to strike a balance between theory and application by incorporating real examples and helping students visualize the three-dimensional atomic and molecular structures that are the basis of chemical activity.

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An integral part of the text is to develop students' problem-solving and critical thinking skills. The 11th edition continues to deliver the integration of tools designed to inspire both students and instructors. Effective technology is integrated throughout the book.

ISE EBook Online Access for Chemistry

Chemistry

Organic Chemistry

Foundations of College Chemistry 13th Edition Binder

Ready Version with Foundations of Chem Lab 13th Edition

Set

This is the eBook of the printed book and may not include any

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media, website access codes, or print supplements that may come packaged with the bound book. The book that defined the liberal arts chemistry course, *Chemistry for Changing Times* remains the most visually appealing and readable introduction on the subject. The Thirteenth Edition increases its focus on student engagement – with revised “Have You Ever Wondered?” questions, new Learning Objectives in each chapter linked to end of chapter problems, and new Green Chemistry content, closely integrated with the text. Abundant applications and examples fill each chapter, and material is updated throughout to mirror the latest scientific developments in a fast-changing world. Compelling chapter opening photos, a focus on Green Chemistry, and the “It DOES Matter” features highlight current events and enable students to relate to the book more readily. This package contains: Chemistry

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for Changing Times, Thirteenth Edition

Frost and Deal's General, Organic, and Biological Chemistry gives students a focused introduction to the fundamental and relevant connections between chemistry and life. Emphasizing the development of problem-solving skills with distinct Inquiry Questions and Activities, this text empowers students to solve problems in different and applied contexts relating to health and biochemistry. Integrated coverage of biochemical applications throughout keeps students interested in the material and allow for a more efficient progression through the topics. Concise, practical, and integrated, Frost's streamlined approach offers students a clear path through the content. Applications throughout the narrative, the visual program, and problem-solving support in each chapter improve their retention of the concepts and skills as they master

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them. General, organic, and biological chemistry topics are integrated throughout each chapter to create a seamless framework that immediately relates chemistry to students' future allied health careers and their everyday lives. Note: This is the standalone book, if you want the book/access card order the ISBN below: 0321802632 / 9780321802637 General, Organic, and Biological Chemistry Plus MasteringChemistry with eText -- Access Card Package Package consists of: 0321803035 / 9780321803030 General, Organic, and Biological Chemistry 0321833945 / 9780321833945 MasteringChemistry with Pearson eText -- ValuePack Access Card -- for General, Organic, and Biological Chemistry

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value; this format costs significantly less

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than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of MyLab(tm) and Mastering(tm) platforms exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a Course ID, provided by your instructor, to register for and use MyLab and Mastering products. For courses in two-semester general chemistry. Accurate, data-driven authorship with expanded interactivity leads to greater student engagement Unrivaled problem sets, notable scientific accuracy and currency, and remarkable clarity have made Chemistry: The Central Science the leading general chemistry text for more than a decade. Trusted, innovative, and calibrated, the text increases conceptual understanding and leads to greater student success in general chemistry by building on

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the expertise of the dynamic author team of leading researchers and award-winning teachers. In this new edition, the author team draws on the wealth of student data in Mastering(tm)Chemistry to identify where students struggle and strives to perfect the clarity and effectiveness of the text, the art, and the exercises while addressing student misconceptions and encouraging thinking about the practical, real-world use of chemistry. New levels of student interactivity and engagement are made possible through the enhanced eText 2.0 and Mastering Chemistry, providing seamlessly integrated videos and personalized learning throughout the course . Also available with Mastering Chemistry Mastering(tm) Chemistry is the leading online homework, tutorial, and engagement system, designed to improve results by engaging students with vetted content. The enhanced eText 2.0 and Mastering Chemistry work

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with the book to provide seamless and tightly integrated videos and other rich media and assessment throughout the course. Instructors can assign interactive media before class to engage students and ensure they arrive ready to learn. Students further master concepts through book-specific Mastering Chemistry assignments, which provide hints and answer-specific feedback that build problem-solving skills. With Learning Catalytics(tm) instructors can expand on key concepts and encourage student engagement during lecture through questions answered individually or in pairs and groups. Mastering Chemistry now provides students with the new General Chemistry Primer for remediation of chemistry and math skills needed in the general chemistry course. If you would like to purchase both the loose-leaf version of the text and MyLab and Mastering, search for: 0134557328 / 9780134557328 Chemistry:

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e Book Instant Access for Chemistry: The Central Science, Global Edition
Physical Chemistry for the Biosciences
Loose Leaf for Chemistry
Principles, Patterns, and Applications
Organic Chemistry, 3rd Edition offers success in organic chemistry requires mastery in two core

aspects: fundamental concepts and the skills needed to apply those concepts and solve problems. Students must learn to become proficient at approaching new situations methodically, based on a repertoire of skills. These skills are vital for successful problem solving in organic chemistry. Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems.

A guide to putting cognitive diversity to work
Ever wonder what it is that makes two people click or clash? Or why some groups excel while

others fumble? Or how you, as a leader, can make or break team potential? Business Chemistry holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the Business Chemistry framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? Business Chemistry will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers

practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew

how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of diversity on your teams and in your organizations, improving collaboration to achieve the group's collective potential. Business Chemistry offers all of this--you don't have to leave it up to chance, and you shouldn't. Let this book guide you in creating great chemistry! The authors, who have more than two decades of combined experience teaching an atoms-first course, have gone beyond reorganizing the

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topics. They emphasize the particulate nature of matter throughout the book in the text, art, and problems, while placing the chemistry in a biological, environmental, or geological context. The authors use a consistent problem-solving model and provide students with ample opportunities to practice.

Practical Magic for Crafting Powerful Work Relationships

The Central Science, Global Edition
Chemistry For Changing Times

Study Guide and Solutions Manual for Organic Chemistry: a Short Course, 10th Ed., Harold

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Hart, Leslie E. Craine, and David J. Hart
Ideas of Quantum Chemistry shows how quantum mechanics is applied to chemistry to give it a theoretical foundation. The structure of the book (a TREE-form) emphasizes the logical relationships between various topics, facts and methods. It shows the reader which parts of the text are needed for understanding specific aspects of the subject matter. Interspersed throughout the text are short biographies of key scientists and their contributions to the development of the field. *Ideas of Quantum Chemistry* has both textbook and reference work

*aspects. Like a textbook, the material is organized into digestible sections with each chapter following the same structure. It answers frequently asked questions and highlights the most important conclusions and the essential mathematical formulae in the text. In its reference aspects, it has a broader range than traditional quantum chemistry books and reviews virtually all of the pertinent literature. It is useful both for beginners as well as specialists in advanced topics of quantum chemistry. The book is supplemented by an appendix on the Internet. **
Presents the widest range of quantum chemical

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*problems covered in one book * Unique structure allows material to be tailored to the specific needs of the reader * Informal language facilitates the understanding of difficult topics
Contains 25 experiments for the standard course sequence of topics.*

Chemistry McGrawhill Education

Solutions to Red Exercises for Chemistry

*The Chemistry and Technology of Furfural and its
Many By-Products*

Chemistry 2e

Environmental Organic Chemistry

This is part two of two for Chemistry: Atoms First by OpenStax. This book covers chapters 11-21. Chemistry: Atoms First is a peer-reviewed, openly licensed introductory textbook produced through a collaborative publishing partnership between OpenStax and the University of Connecticut and UConn Undergraduate Student Government Association. This title is an adaptation of the OpenStax Chemistry text and covers scope and sequence requirements of the two-semester general chemistry course. Reordered to fit an atoms first approach, this title introduces atomic and molecular structure much earlier

than the traditional approach, delaying the introduction of more abstract material so students have time to acclimate to the study of chemistry. Chemistry: Atoms First also provides a basis for understanding the application of quantitative principles to the chemistry that underlies the entire course. The images in this textbook are grayscale.

The Student Solutions Manual will have all the solutions to the even numbered problems in the text. The style of the solutions will match worked examples in the text to help the student learn how to solve the problems.

Prepared by John H. Nelson and Kenneth C.

Kemp, both of the University of Nevada. This manual contains 43 finely tuned experiments chosen to introduce students to basic lab techniques and to illustrate core chemical principles. You can also customize these labs through Catalyst, our custom database program. For more information, visit <http://www.pearsoncustom.com/custom-library/catalyst> In the Thirteenth Edition, all experiments were carefully edited for accuracy and safety. Pre-labs and questions were revised and several experiments were added or changed. Two of the new experiments have been added to Chapter 11.

Introduction to Chemistry
The Chemistry of C-Glycosides
General, Organic, and Biological Chemistry
Laboratory Experiments for Chemistry
The trusted, innovative, calibrated leader
Unrivaled problems, notable scientific
accuracy and currency, and remarkable clarity
have made Chemistry: The Central Science the
leading general chemistry text for more than
a decade. Trusted, innovative, and
calibrated, the text increases conceptual
understanding and student success in general
chemistry by building on the expertise of the
dynamic author team of leading researchers

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and award-winning professors. The new Thirteenth Edition builds on the Twelfth Edition's major revision, in which every word and piece of art was scrutinized by all the authors to increase its effectiveness. Placing a greater emphasis on research, this edition is more tightly integrated with MasteringChemistry, the leading online homework, tutorial, and assessment program—resulting in an unparalleled teaching and learning package that personalizes learning and coaches students toward understanding and mastery of tough chemistry topics. This program presents a better teaching and

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learning experience—for you and your students. It provides: Enhanced learning from a dynamic author team of leading researchers and award-winning professors: Each member of this well-respected author team brings their expertise in a wide range of areas to the pages of this popular text. All authors have been active researchers and have taught general chemistry for many years. Improved conceptual understanding through stepped up, relevant pedagogy: Students get numerous opportunities to test their knowledge through Give It Some Thought (GIST) exercises, Go Figure questions, and A Closer Look essays,

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now integrated with clicker questions and in MasteringChemistry. Invaluable aids that ensure problem-solving success: By using a consistent process, a unique Analyze/Plan/Solve/Check format, dual-column problem-solving approach in certain areas, a new practice exercise following each worked example, and the Strategies in Chemistry feature, students are placed on the right path from the very start to excel at problem solving and comprehension. Clarity through visualization from a variety of perspectives, including macroscopic, microscopic, and symbolic: Included are Visualizing Concepts

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exercises, with models, graphs, and other visual materials; sample exercises with molecular illustrations; and conceptual questions in the end-of-chapter questions. Superior support beyond the classroom with MasteringChemistry: Students benefit from personalized, interactive learning through MasteringChemistry's self-paced tutorials that guide them through the text's most challenging topics; provide immediate, specific feedback; and keep students engaged and on track. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content.

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MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

This publication provides comprehensive material on the chemical and physical attributes of surfactants and new models for the understanding of structure-property relationships. Surfactants Chemistry, Interfacial Properties, Applications provides efficient instruments for the prognostication of principal physicochemical properties and the technologic applicability from the structure of a surfactant through the discussion of interrelations between the

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chemical structure, physicochemical properties and the efficiency of technologic application. Also included are informative overviews on new experimental techniques and abundant reference material on manufacturers, nomenclature, product properties, and experimental examples. The publication is accompanied by a CD-ROM, which is needed for the application of the thermodynamic and kinetic models to experimental data. Chang's best-selling general chemistry textbook takes a traditional approach and is often considered a student and teacher favorite. The book features a

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straightforward, clear writing style and proven problem-solving strategies. It continues the tradition of providing a firm foundation in chemical concepts and principles while presenting a broad range of topics in a clear, concise manner. The tradition of "Chemistry" has a new addition with co-author, Kenneth Goldsby from Florida State University, adding variations to the 12th edition. The organization of the chapter order has changed with nuclear chemistry moving up in the chapter order.

The Central Science (Ap Edition)

Chang, Chemistry, AP Edition

Surfactants: Chemistry, Interfacial Properties, Applications

This book covers the synthesis, reactions, and properties of elements and inorganic compounds for courses in descriptive inorganic chemistry. It is suitable for the one-semester (ACS-recommended) course or as a supplement in general chemistry courses. Ideal for major and non-majors, the book incorporates rich graphs and diagrams to enhance the content and maximize learning. Includes expanded coverage of chemical bonding and enhanced treatment of Buckminster Fullerenes

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Incorporates new industrial applications matched to key topics in the text

"The fourteenth edition continues a long tradition of providing a firm foundation in the concepts of chemical principles while instilling an appreciation of the important role chemistry plays in our daily lives. We believe that it is our responsibility to assist both instructors and students in their pursuit of this goal by presenting a broad range of chemical topics in a logical format. At all times, we strive to balance theory and application and to illustrate principles with applicable examples whenever possible"--

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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

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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

An Introduction to General, Organic, and Biological Chemistry

Structure, Mechanism, Synthesis

Student Solution Manual to Accompany Chemistry

The Central Science

Timberlake's Chemistry: An Introduction to

General, Organic, and Biological Chemistry is designed to help prepare students for health-related careers, such as nursing, dietetics, respiratory therapy, and environmental or agricultural science. Assuming no prior knowledge of chemistry, it aims to make this course an engaging and positive experience by relating the structure and behavior of matter to its role in health and the environment. Timberlake maintains the clear, friendly writing style and the real-world, health-related applications that have made this text a leader in the discipline. The Eleventh Edition introduces

more problem-solving strategies-including new Concept Checks, more Guides to Problem Solving, and more conceptual, challenge, and combined problems.

Organic Chemistry is unusual among market-leading texts; it exists only as a brief text and is specifically designed for a one-semester short course in organic chemistry. Its heavy emphasis on applications, increased coverage of basic concepts, thorough problem-solving pedagogy, and comprehensive problem sets address the specific needs of students in this course."A Closer Look At" features require students to use

resources on the Web to expand concepts in the text, applying text content more directly to real-world examples. The HM ClassPrep instructor CD-ROM provides valuable supplemental content in one convenient, portable product. The CD-ROM includes a test bank, Instructor's Resource Manual, and PowerPoint slides of all line art from the text and animations from the student CD-ROM.

Designed for the two-semester general chemistry course, Chang's textbook has often been considered a student favorite. This best-selling textbook takes a traditional approach. It

features a straightforward, clear writing style and proven problem-solving strategies.. . The strength of the seventh edition is the integration of many tools that are designed to inspire both students and instructors. The textbook is the foundation for the technology. The multi-media package for the new edition stretches students beyond the confines of the traditional textbook.

An Atoms-Focused Approach

Organic Chemistry, Loose-Leaf Print Companion

Business Chemistry

Foundations of College Chemistry 13th Edition

with WileyPLUS Set

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This book is a "world first", since the furfural industry has been traditionally secretive to the point of appearing shrouded in clouds of mystery. Even renowned encyclopedic works have published but scant and often erroneous information on the subject. Striking a healthy balance between theory and practice, the book leads the reader from reaction mechanisms and kinetics to the technology of making furfural by various old and new processes, using conventional raw materials or sulfite waste liquor. Detailed discussions of means of increasing the yield are of great chemical and technological interest as well as of immense economic importance. From furfural proper, the treatise shifts to the fascinating field of wante

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and unwanted by-products ranging from largely unutilized carboxylic acids to troublesome impurities such as 5-methyl furfural and 2-furyl methyl ketone, and then to extremely valuable serendipitous flavor compounds such as diacetyl and 2,3-pentanedione. A wide variety of derivatives are discussed; considerable space is devoted to polytetrahydrofuran, an important building block of stretchable synthetic fibers, while furan resins from both furfural and furfuryl alcohol are given the attention commensurate with their industrial importance. Notable supplementary chapters cover the in-line measurement of furfural, the treatment of furfural waste water, and various aspects of corrosion. A chapter on the applications

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of furfural elaborates not only traditional uses in extracting petroleum and vegetable oils but also the sensational discovery that furfural is a highly effective "indirect nematocide". Without becoming toxic, it changes the microflora of the soil by stimulating bacteria antagonistic to nematodes, thereby reducing the nematode population to zero, at an unprecedented low price. It is believed that this application will be the principal outlet for furfural in the future. A comprehensive list of physical properties, some never published before, make the book an indispensable companion for producers, users and researchers alike.

Emphasises on contemporary applications and an intuitive

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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.

"Steven and Susan Zumdahl's CHEMISTRY 8e brings together the solid pedagogy, easy-to-use media, and interactive exercises that today's instructors need for their general chemistry course. Rather than rote memorization, CHEMISTRY emphasizes a thoughtful approach built on problem-solving. For the Eighth Edition, the authors have extended this approach by emphasizing problem-solving strategies within the Examples and throughout the text

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narrative. The text speaks directly to the student about how to approach and solve chemical problems--to learn to think like a chemist--so that they can apply the process of problem-solving to all aspects of their lives. Students are provided with the tools to become critical thinkers: to ask questions, to apply rules and develop models, and to evaluate the outcome."--pub. desc.

Essential Lab Manual for Chemistry
International Edition