

## General Chemistry The Essential Concepts

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The seventh edition of General Chemistry continues the tradition of presenting only the material that is essential for a one-year general chemistry course. It strikes a balance between theory and application by incorporating real-world examples; helping students visualize the three-dimensional atomic and molecular structures that are the basis of chemical activity; and developing problem-solving and critical thinking skills. Although the seventh edition incorporates many impressive features, such as conceptual idea review, animations correlated to the text, and hand-sketched worked examples, General Chemistry is still 200 to 300 pages shorter and much less expensive than other two-semester textbooks. Dr.

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Chang and Dr. Goldsby's concise-but-thorough approach will appeal to efficiency-minded instructors and value-conscious students.

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.

Professional Counseling Excellence through Leadership and Advocacy provides readers with the knowledge, skills, and qualities to succeed as leaders and advocates throughout their careers. Edited by leaders in counselor education and endorsed by Chi Sigma Iota, this text places leadership and advocacy in a historical context while strengthening the foundational knowledge and skills counselors need. The new edition integrates the Multicultural and Social Justice Counseling Competencies (MSJCCs) and applies them to a variety of counseling settings at both local and state levels. Chapters also address leadership and design of effective counselor education programs, curricular implications, supervision and consultation, and research directions. The new edition is designed for counselor educators and supervisors and doctoral-level counselor education students who are studying leadership and advocacy as one of five core areas within the 2016 CACREP standards and for master's level students and practitioners who are growing their leadership and advocacy skills.

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This essential guide to the knowledge and tools in the field includes everything from the basic concepts to modern methods, while also forming a bridge to bioinformatics. The textbook offers a very clear and didactical structure, starting from the basics and the theory, before going on to provide an overview of the methods. Learning is now even easier thanks to exercises at the end of each section or chapter. Software tools are explained in detail, so that the students not only learn the necessary theoretical background, but also how to use the different software packages available. The wide range of applications is presented in the corresponding book Applied Chemoinformatics - Achievements and Future Opportunities (ISBN 9783527342013). For Master and PhD students in chemistry, biochemistry

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and computer science, as well as providing an excellent introduction for other newcomers to the field.

"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"--

General Chemistry: The Essential Concepts McGraw-Hill Education

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This textbook introduces the fundamental concepts and methods of corpus linguistics for students approaching this topic for the first time, putting specific emphasis on the enormous linguistic diversity represented by approximately 7,000 human languages and broadening the scope of current

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concerns in general corpus linguistics. Including a basic toolkit to help the reader investigate language in different usage contexts, this book: Shows the relevance of corpora to a range of linguistic areas from phonology to sociolinguistics and discourse Covers recent developments in the application of corpus linguistics to the study of understudied languages and linguistic typology Features exercises, short problems, and questions Includes examples from real studies in over 15 languages plus multilingual corpora Providing the necessary corpus linguistics skills to critically evaluate and replicate studies, this book is essential reading for anyone studying corpus linguistics.

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General Chemistry for Engineers and Biological Scientists provides students with a focused and practical approach to learning the essential concepts of chemistry. The foundational knowledge they cultivate through the text can be applied to a number of scientific fields, including engineering, healthcare, forensics, pharmacology, and nursing. The text

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begins with a chapter dedicated to the explanation of atoms and compounds. Later chapters provide students with information regarding the periodic table, chemical reactions and equations, solutions, kinetics and equilibria, and acid-base chemistry. Readers gain a solid understanding of sources of energy, oxidation-reduction reactions, toxicology and pharmacology, the fundamentals of organic chemistry, and more. The book concludes with a chapter that speaks to agricultural chemistry. Helpful appendices provide readers with quick references to fundamental constants, conversion factors, aqueous and standard reduction potentials, and dissociation constants of some acids. General Chemistry is designed to support a two-semester course within the discipline, especially those that focus on the practical application of chemistry-related concepts. Basic Concepts of Environmental Chemistry, Second Edition provides a theoretical basis for the behavior and biological effects of natural chemical entities and contaminants in natural systems, concluding with a practical focus on risk assessment and the environmental management of chemicals. The text uses molecular properties such as polarizability and dipole moment. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with

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Focuses on the key chemical concepts which students of the biosciences need to understand, making the scope of the book directly relevant to the target audience.

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Problem-Solving Workbook with Selected Solutions is a valuable resource containing material to help the student practice problem-solving skills. It also contains the detailed solutions and explanations for the even-numbered problems for each chapter.

Silberberg's Principles of General Chemistry offers students the same authoritative topic coverage as its parent text, Chemistry: The Molecular Nature of Matter and Change. The Principles text allows for succinct coverage of 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.

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General Chemistry for Engineers explores the key areas of chemistry needed for engineers. This book develops material from the basics to more advanced areas in a systematic fashion. As the material is presented, case studies relevant to engineering are included that demonstrate the strong link between chemistry and the

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various areas of engineering. Serves as a unique chemistry reference source for professional engineers Provides the chemistry principles required by various engineering disciplines Begins with an 'atoms first' approach, building from the simple to the more complex chemical concepts Includes engineering case studies connecting chemical principles to solving actual engineering problems Links chemistry to contemporary issues related to the interface between chemistry and engineering practices

A comprehensive, practical examination of the basic principles and inner mechanics of matter . . . Moving from pure principles to real applications, the Quantum Chemistry Workbook is a step-by-step study guide to the inner workings of nature's fundamental systems: free atoms, small molecules, polymers, and crystals.

Beginning with a short, clear summary of the basics of quantum mechanics, the Workbook offers a chapter-by-chapter exposition in a highly interactive exercise and question format that allows readers to work through the main concepts discussed. Not simply a conventional workbook, the Quantum Chemistry Workbook encourages discovery and original reflection, allowing users, through its rigorous give and take, to discover the intriguing connections hidden within the science. The Workbook includes:

- \* A comparative overview of how basic concepts and principles actually work in free atoms, small molecules, polymers, and crystals
- \* A practical look at the approximation level of a one-electron type
- \* A complete examination of momentum space, with numerous conceptual illustrations
- \* Atomic units used

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throughout An essential companion to any textbook on chemistry and physics, the Quantum Chemistry Workbook is ideal for professors interested in giving students a firm grasp of the working basics of the science. For students and professionals interested in pursuing the fundamentals of quantum chemistry on their own, the Workbook is an incomparable introduction and study tool.

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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 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

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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 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 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

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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: The Central Science, Books a la Carte Plus MasteringChemistry with Pearson eText -- Access Card Package Package consists of: 0134294165 / 9780134294162 MasteringChemistry with Pearson eText -- ValuePack Access Card -- for Chemistry: The Central Science 0134555635 / 9780134555638 Chemistry: The Central Science, Books a la Carte Edition

The sixth edition of General Chemistry continues the tradition of presenting only the material that is essential for a one-year general chemistry course. It strikes a balance between theory and application by incorporating real-world examples; helping students visualize the three-dimensional atomic and molecular structures that are the basis of chemical activity; and developing problem-solving and critical thinking skills. Although the sixth edition incorporates many impressive features, such as macro to micro artwork, animations correlated to the text, and hand-sketched worked examples, General Chemistry is still 200 to 300 pages shorter and much less expensive than other two-semester textbooks. Dr. Chang's concise-but-thorough approach will appeal to efficiency-minded instructors and value-conscious students.

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For CS1 courses in Python Programming (including majors and non-majors). A problem-solving approach to programming with Python. The Practice of Computing Using Python introduces CS1 students (majors and non-majors) to computational thinking using Python. With data-manipulation as a theme, students quickly see the value in what they're learning and leave the course with a set of immediately useful computational skills that can be applied to problems they encounter in future pursuits. The book takes an "object-use-first" approach—writing classes is covered only after students have mastered using objects. This edition is available with MyProgrammingLab, an innovative online homework and assessment tool. Through the power of practice and immediate personalized feedback, MyProgrammingLab helps students fully grasp the logic, semantics, and syntax of programming. Note: If you are purchasing the standalone text or electronic version, MyProgrammingLab does not come automatically packaged with the text. To purchase MyProgrammingLab, please visit: [myprogramminglab.com](http://myprogramminglab.com) or you can purchase a package of the physical text + MyProgrammingLab by searching for ISBN 10: 0132992833 / ISBN 13: 9780132992831. MyProgrammingLab is not a self-paced technology and should only be purchased when required by an instructor

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Aimed at the one-year general chemistry course, this text offers a shorter, more compact presentation of topics at the same depth and with the same rigor as other traditional mainstream texts. It includes only the core topics necessary for a good foundation in general chemistry but without sacrificing clarity and comprehension.

The third edition of General Chemistry: The Essential Concepts continues the tradition of presenting only the material that is essential for a one-year general chemistry course. As before, the text includes all the core topics that are necessary for a solid foundation in general chemistry without sacrificing depth, clarity, or rigor. The third edition features new Spartan molecular models, animations correlated to the text, the addition of molecular orbital theory and more.

General Chemistry: The Essential Concepts is 200 to 300 pages shorter than traditional two-semester textbooks and is much less expensive. Dr. Chang's concise-but-thorough approach will appeal to efficiency-minded instructors and will please value-conscious students.

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