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MyProgrammingLab should only be purchased when required by an instructor. 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, readers 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. 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.

Emphasises on contemporary applications and an intuitive problem-solving approach that helps

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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.

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.

Physics and Chemistry of Interfaces This general yet comprehensive introduction to the field focuses on the essential concepts rather than specific details, on intuitive understanding rather than learning facts. The text reflects the many facets of this discipline by linking fundamentals with applications. The theory behind important concepts is backed by scientific-engineering aspects, as well as by a wide range of high-end applications. Examples of applications from

biotechnology to microelectronics are used to illustrate the basic concepts. New to this third edition are topics as second harmonic generation spectroscopy, surface diffusion, atomic layer deposition, superlubricity, and bioadhesion. At the same time, the discussions of liquid surfaces, the Marangoni effect, electric double layers, measurement of surface forces, wetting, and adsorption have been updated. The number and variety of exercises are increased and the references are updated. From the Contents:
Introduction
Liquid Surfaces
Thermodynamics of Interfaces
Charged Interfaces and the Electric Double Layer
Surface Forces
Contact Angle Phenomena and Wetting
Solid Surfaces
Adsorption
Surface Modification
Friction, Lubrication, and Wear
Surfactants, Micelles, Emulsions, and Foams
Thin Films on Surfaces of Liquids
Solutions to Exercises
Analysis of Diffraction Patterns

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comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780077705381. This item is printed on demand.

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Polymer physics is one of the key courses not only in polymer science but also in material science. In his textbook Strobl presents the elements of polymer physics to the necessary extent in a very didactical way. His main focus is on the concepts and major phenomena of polymer physics, not just on mere physical methods. He has written the book in a personal style evaluating the concepts he is dealing with. Every student in polymer and materials science will be happy to have it on his shelf.

"The fourteenth edition continues a long tradition of providing

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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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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.

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

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

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

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quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific.

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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.

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 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

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

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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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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 pola

General Chemistry: The Essential Concepts McGraw-Hill Education

SmartBook is the first and only adaptive reading experience. Fueled by LearnSmart – the most widely used and intelligent adaptive learning technology – SmartBook identifies what you know and don't know, and highlights what you need to learn. It even figures out what material you are most likely to forget. SmartBook helps you study smarter, not harder, and get the grades you want.

Problem-Solving Workbook with Selected Solutions is a valuable resource containing material to help the student

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practice problem-solving skills. It also contains the detailed solutions and explanations for the even-numbered problems for each chapter.

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

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

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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 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

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