

Chang General Chemistry The Essential Concepts

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ebook general chemistry the essential concepts

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

publisher description

general chemistry principles and modern applications is recognized for its superior problems lucid writing and precision of argument this updated and expanded edition retains the popular and innovative features of previous editions including feature problems follow up integrative and practice exercises to accompany every in chapter example and focus on application boxes as well as new keep in mind marginal notes topics covered include atoms and the atomic theory chemical compounds and reactions gases thermochemistry electrons in atoms chemical bonding liquids solids and intermolecular forces chemical kinetics principles of chemical equilibrium acids and bases electrochemistry representative and transitional elements and nuclear and organic

chemistry for individuals interested in a broad overview of chemical principles and applications

known for its carefully developed thoroughly integrated approach to problem solving this market leading text emphasizes the conceptual understanding and visualization skills essential for first year chemistry and science majors the new technology program reinforces the approach of the text and provides a complete solution for teaching and learning the eighth edition retains the hallmark pedagogical features of the text and builds upon the conceptual focus and art program students also benefit from online homework in the technology program which features an extensive database of questions drawn from the text

revised third edition of classic first year text by nobel laureate covers atomic and molecular structure quantum mechanics statistical mechanics and thermodynamics correlated with descriptive chemistry problems

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general chemistry presents the fundamental concepts of general chemistry in a precise and comprehensive manner for undergraduate students of chemistry and life science at all indian universities adhering strictly to the ugc curriculum the contents are written in a simple and lucid language enriched with a large number of examples and illustrations

a course in general chemistry by william mcpherson offers a comprehensive introduction to the fundamental principles of chemistry designed as a textbook for students it covers a wide range of topics including atomic theory chemical reactions and the properties of matter originally published in 1921 this edition provides a valuable historical perspective on the teaching of chemistry in the early 20th century mcpherson s clear and systematic approach makes this book an enduring resource for understanding the basic concepts of chemistry this work aims to provide a solid foundation for further study in the sciences this work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it this work was reproduced from the original artifact and remains as true to the original work as possible therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work this work is in the public domain in the united states of america and possibly other nations within the united states you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work as a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public we appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant

designed to help students recognize their learning style understand how to 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

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 brian dixon is an associate professor in the science mathematics department at massachusetts maritime academy where he teaches courses in physics and chemistry he is also the president of versatile dynamics inc dr dixon holds a ph d in chemistry from the university of illinois at urbana champaign lori noble is an associate professor and the chair of the science mathematics department at massachusetts maritime academy where she teaches courses in physics and chemistry she holds a ph d in biochemistry from brandeis university

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organic chemistry provides a comprehensive discussion of the basic principles of organic chemistry in their relation to a host of other fields in both physical and biological sciences this book is written based on the premise that there are no shortcuts in organic chemistry and that understanding and mastery cannot be achieved without devoting adequate time and attention to the theories and concepts of the discipline it lays emphasis on connecting the basic principles of organic chemistry to real world challenges that require analysis not just recall this text covers topics ranging from structure and bonding in organic compounds to functional groups and their properties identification of functional groups by infrared spectroscopy organic reaction mechanisms structures and reactions of alkanes and cycloalkanes nucleophilic substitution and elimination reactions conjugated alkenes and allylic systems electrophilic aromatic substitution carboxylic acids and synthetic polymers throughout the book principles logically evolve from one to the next from the simplest to the most complex examples with abundant connections between the text and real world applications there are extensive examples of biological relevance along with a chapter on organometallic chemistry not found in other standard references this book will be of interest to chemists life scientists food scientists pharmacists and students in the physical and life sciences contains extensive examples of biological relevance includes an important chapter on organometallic chemistry not found in other standard references extended illustrated glossary appendices on thermodynamics kinetics and transition state theory

this book the fourth in a series of understanding chemistry books deals with basic

chemistry written for students taking either the university of cambridge o level examinations or the gcse examinations this textbook covers essential topics under both stipulated chemistry syllabi the book is written in such a way as to guide the reader through the understanding and applications of basic essential chemical concepts by introducing a discourse feature the asking and answering of questions that stimulates coherent thinking and hence elucidates ideas based on the socratic method questions are implanted throughout the book to help facilitate the reader s development in forming logical conclusions of concepts the book helps students to master fundamental chemical concepts in a simple way

understanding general chemistry details the fundamentals of general chemistry through a wide range of topics relating the structure of atoms and molecules to the properties of matter written in an easy to understand format with helpful pedagogy to fuel learning the book features main objectives at the beginning of each chapter get smart sections and check your reading section at the end of each chapter the text is filled with examples and practices that illustrate the concepts at hand in addition a summary and extensive mcqs exercises and problems with the corresponding answers and explanations are readily available additional features include alerts students to common mistakes and explains in simple ways and clear applications how to avoid these mistakes offers answers and comments alongside sample problems enabling students to self evaluate their skill level includes powerful methods easy steps simple and accurate interpretations and engaging applications to help students understand complex principles provides a bridge to more complex topics such as solid state chemistry organometallic chemistry chemistry of main group elements inorganic chemistry and physical chemistry this introductory textbook is ideal for chemistry courses for non science majors as well as health sciences and preparatory engineering students

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