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General Chemistry I As A Second Language Mastering The Fundamental Skills

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. The text includes only the core topics that are necessary for a good foundation in general chemistry.

Excerpt from General Chemistry for Colleges The writer desires to express his profound gratitude to the many chemists who have made valuable criticisms and suggestions. Most of these comments applied to the Introduction to General Inorganic Chemistry, but many of them have been used in preparing this work (general Chemistry for Colleges), and all will be considered in the second edition of the larger book. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

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Green chemistry involves designing novel ways to create and synthesize products and implement processes that will eliminate or greatly reduce negative environmental impacts. The Green Chemistry Laboratory Manual for General Chemistry provides educational laboratory materials that challenge students with the customary topics found in a general chemistry laboratory manual, while encouraging them to investigate the practice of green chemistry. Following a consistent format, each lab experiment begins with objectives and prelab questions highlighting important issues that must be understood prior to getting started. This is followed by detailed step-by-step procedures for performing the experiments. Students report specific results in sections designated for data, observations, and calculations. Once each experiment is completed, analysis questions test students' comprehension of the results. Additional questions encourage inquiry-based investigations and further research about how green chemistry principles compare with traditional, more hazardous experimental methods. By placing the learned concepts within the larger context of green chemistry principles, the lab manual enables students to see how these principles can be applied to real-world issues. Performing laboratory exercises through green experiments results in a safer learning environment, limits the quantity of hazardous waste generated, and reduces the cost for chemicals and waste disposal. Students using this manual will gain a greater appreciation for green chemistry principles and the possibilities for future use in their chosen careers.

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Publisher Description

Chemistry and the scientific method; the three states of matter; atoms and molecules; hydrogen, oxygen, and water; classification of the elements; atomic structure; nuclear chemistry and atomic energy; electrons and valence; acids and bases; oxidation-reduction; the alkali metals; the alkaline earth metals; the boron family; carbon; organic chemistry; nitrogen family; analytical chemistry; metallurgy; titanium, vanadium, chromium, manganese; iron cobalt, nickel, and the platinum metals; copper, silver and gold; zinc, cadmium and mercury; carbohydrates, fats, and proteins; polymerization, rubber, rubber substitutes and plastics; international atomic weights; atomic structure of the elements.

This flexible lab manual-appropriate for use with a wide range of general chemistry books-offers a wealth of practical chemistry experiments. It includes pertinent information on rules and safety in the lab. Preparation of the new edition was guided by specific feedback from users.

In the past two decades, microscale techniques have soared in popularity because these techniques minimize exposure to potentially dangerous chemicals in the lab, drastically cut the amount of chemical waste, lower costs, and reduce risks of chemical fires and explosions. The result is a safer and healthier laboratory environment. Now, with *Microscale General Chemistry Laboratory with Selected Macroscale Experiments, Second Edition*, you can bring these techniques into your own chemistry lab. Thoroughly revised with updated experiments, the new *Second Edition* continues to offer a large variety of well-designed, easy-to-follow experiments, as well as thorough background information and an outstanding selection of questions and problems.

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General Chemistry: Understanding Moles, Bonds, and Equilibria, Volume 1 introduces students to foundational concepts in chemistry with emphasis on real-world application. Throughout the text, students learn how the study of chemistry supports material science, forensics, medicine, and other disciplines. The text is organized into 13 chapters that can be taught traditionally or in a non-linear fashion. Topics include the scientific method, atoms, mass and molecules, aqueous solutions, gases, thermochemistry, electrons in atoms, and electron configuration. Students learn about chemical bonding, molecular geometry, liquids and solids, and mixtures. The book features problems that span multiple chapters, topic boxes that contain worked examples, concurrent presentation of the VSEPR and Valence Bond theories to allow each to reinforce the other, and integration of environmental topics within distinct sections of appropriate chapters. Introductions, summaries, problems, application examples, and meaningful appendices further facilitate student learning, rendering General Chemistry an ideal textbook for foundational chemistry courses. General Chemistry: Understanding Moles, Bonds, and Equilibria, Volume 2 is a continuation of this text with further coverage of equilibria, thermodynamics, nuclear chemistry, organic chemistry, and biochemistry and biotechnology.

A major goal of the book is to provide a truly general course that integrates all the major areas of chemistry. Physical principles, inorganic compounds, and analytical techniques are addressed throughout.

MindTap General Chemistry is a personalized teaching and learning experience that allows instructors to control what students see and focus on relevant assignments that guide them to analyze, apply, and improve thinking. Seamlessly integrating simulations, videos and diagnostic quizzes, it helps students achieve course learning outcomes by bringing

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chemistry to life. Measure skills and outcomes with ease using powerful analytics that provide a visual dashboard with at-a-glance performance and engagement data that is used to provide direction regarding class and student needs. This version is accompanied by a print text that includes the narrative from the MindTap General Chemistry course. An inexpensive student supplement providing discussion of key concepts and detailed solutions to the Conceptual Problems in the text.

"3 full-length online practice tests"--Cover.

General, Organic and Biochemistry is praised for the way it gives students the tools they need to develop a working understanding of chemical principles—rather than just asking them to memorize facts. The new edition brings forward the same clear explanations, quality problem-solving support, helpful pedagogy, and applications coverage, adding new features and content to make the text even more accessible, effective, and relevant to its student audience. In order to motivate and thoroughly prepare students, particular attention is paid to relating the chemistry concepts to the human body, health, nutrition, and other important areas important to the student audience. Available in three versions: • General, Organic, and Biochemistry, Second Edition, 0-7167-4375-2—A hardback text of 26 chapters. • Organic and Biochemistry, Second Edition, 0-7167-7072-5—A paperback text containing all organic and biochemistry chapters, plus two general chemistry chapters not included in the GOB version. • An Introduction to General Chemistry, 0-7167-7073-3—A paperback text containing all 10 general chemistry chapters. Excerpt from The Calculations of General Chemistry: With Definitions, Explanations, and Problems Unless a clear and concise exposition of the methods of calculation is presented in the very first course of college work, the progress of the student is greatly hindered. On the other hand, too great a

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mass of mathematical data may impede rather than promote this progress. The aim, therefore, has been to limit these calculations to those subjects generally regarded as fundamental, and in which the student should receive the most complete and thorough drill. Such may rightfully constitute our Arithmetic of Chemistry. Of the many important subjects omitted, the greater number possess a theoretical bearing which brings them more properly into those courses following General and Analytical Chemistry or into the study of Physical Chemistry itself. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Excerpt from The Chemistry of Paper-Making, Together With the Principles of General Chemistry: A Handbook for the Student If rags are boiled for some hours with acid, glucose is formed. Rosin is heated with soda, and a size which is different from either is prepared. Iron rusts in the air or burns in the forge or dissolves in acid, and the products would never be confounded with the metal. These are chemical changes, the identity of the materials involved in them has been lost, and new and different substances have appeared. The changes have affected the ultimate constitution of the substances, and they are no longer what they were. It is with such changes that the science of Chemistry has to deal. About the Publisher Forgotten Books publishes hundreds of

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thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. General Chemistry I as a Second Language Mastering the Fundamental Skills Wiley

"General Chemistry: Principles and Modern Applications" is recognized for its superior problems, lucid writing, precision of argument, and precise and detailed treatment of the subject. Popular and innovative features include "Feature Problems," "follow-up A and B" "Practice Exercises" to accompany every in-chapter "Example," "Focus On" application boxes, and new "Keep in Mind" marginal notes. Every new copy of the Ninth Edition comes with a Student MediaPak, which includes access to the Companion Website with GradeTracker available at <http://www.prenhall.com/petrucci>, the Student Accelerator CD, and the Virtual ChemLab Workbook and CD. This package includes: Basic Media Pack Wrap Companion WEBSITE + Grade Tracker Access Code Card Virtual ChemLab: General Chemistry, Student Lab Manual/Workbook

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

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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.

Get a better grade in General Chemistry! Even though General Chemistry may be challenging at times; with hard work and the right study tools, you can still get the grade you want. With David Klein's General Chemistry as a Second Language, you'll be able to better understand fundamental principles of chemistry, solve problems, and focus on what you need to know to succeed. Here's how you can get a better grade in General Chemistry: Understand the basic concepts: General Chemistry as a Second Language focuses on selected topics in General Chemistry to give you a solid foundation. By understanding these principles, you'll have a coherent framework that will help you better understand your course. Study more efficiently and effectively: General Chemistry as a Second Language provides time-saving study tips and problem-solving strategies that will help you succeed in the course. Improve your problem-solving skills: General Chemistry as a Second Language will help you develop the skills

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