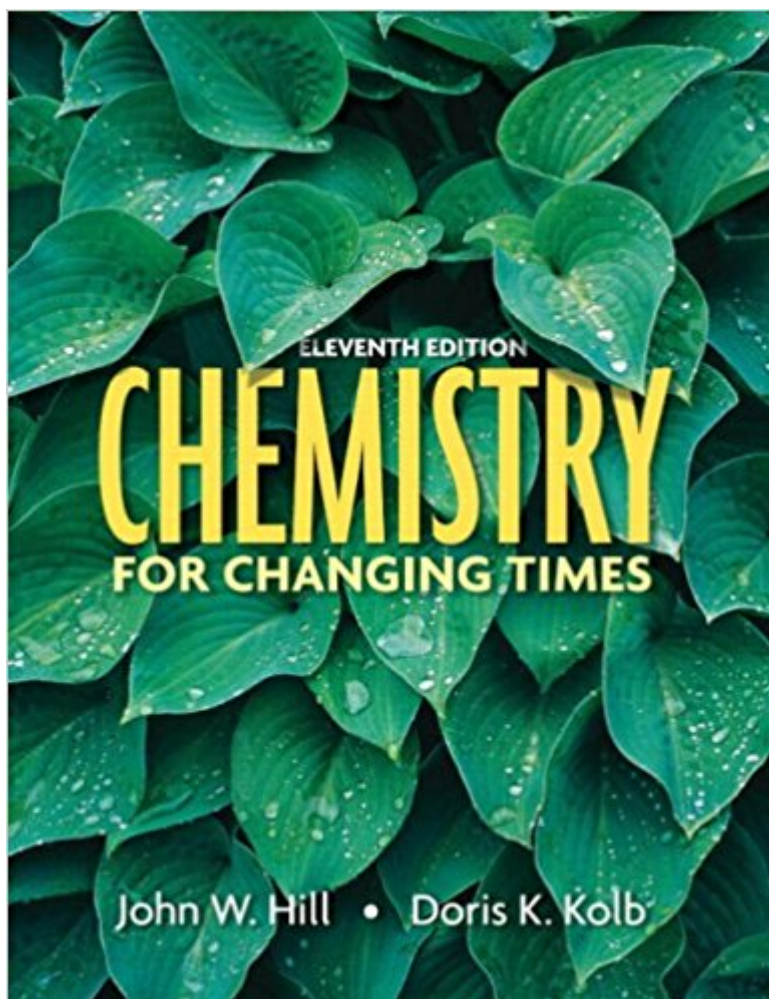




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Chemistry For Changing Times, 11th Edition



Synopsis

This popular book is a useful and interesting read for the layperson, as it is colorful, conversational in tone, and easily understandable. Knowledge of chemistry leads to better understanding about the hazards and benefits of this world, enabling better personal decision-making. Explores the concept of green chemistry throughout. Extensively revises key subject areas such as Energy, Fitness and Health, and Drugs. Features new color photographs and diagrams throughout to help readers visualize chemical phenomena. Personalizes chemistry for today's reader, encouraging a focus on evaluating information about real-life issues rather than memorizing rigorous theory and mathematics. For anyone interested in learning about chemistry and its effect upon our everyday lives.

Book Information

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Customer Reviews

This best-selling text for liberal arts chemistry through six editions continues to feature unparalleled writing and excellent applications. An active member of the chemical education community, Doris Kolb brings a wealth of experience and a fresh perspective as co-author to this market-defining text. Colorful and appealing, the Seventh Edition updates applications, streamlines the overall organization, and adds exciting new resources through unique collaborations with the New York Times and ABC News. Most importantly, the seventh edition builds upon a rich tradition of responding to changing student profiles and modern teaching strategies. --This text refers to an alternate Hardcover edition.

Preface Chemistry for Changing Times is now in its ninth edition. Times have indeed changed since the first edition appeared in 1972, and the book has changed accordingly. Our knowledge base has expanded enormously since that first edition, yet we have resisted the pressure to increase the size of the book. This has forced us to make some tough choices in deciding what to include and what to leave out. We live in what has been called the "information age." Our main focus, therefore, is not so much on providing information as it is on helping students evaluate that information. We believe that a chemistry course for students who are not majoring in science should be quite different from the course we offer our science majors. It should present basic chemical concepts with intellectual honesty, but it should not focus on esoteric theories or rigorous mathematics. It should include lots of modern everyday applications. The textbook should be appealing to look at, easy to understand, and interesting to read. Three-fourths of the legislation considered by the U. S. Congress involves questions having to do with science or technology, yet only rarely does a scientist or engineer enter politics. Most of the people who make important decisions regarding our health and our environment are not trained in science, but it is critical that these decision makers are scientifically literate. A chemistry course for students who are not science majors should emphasize practical applications of chemistry to problems involving such things as environmental pollution, radioactivity, energy sources, and human health. The students who take our liberal arts chemistry courses include future teachers, lawyers, accountants, journalists, and judges. There are probably some future legislators, too.

Objectives Our main objectives in a chemistry course for students who are not majoring in science are as follows: To attract as many students as possible. If students are not enrolled in the course, we can't teach them. To use topics of current interest to illustrate chemical principles. We want students to appreciate the importance of chemistry in the real world. To relate chemical problems to the everyday lives of our students. Chemical problems seem more significant to students if they can see a personal connection. To instill in students an appreciation for chemistry as an open-ended learning experience. We hope that our students will want to continue learning throughout their lives. To acquaint students with scientific methods. We want students to be able to read about science and technology with some degree of critical judgment. To help students become literate in science. We want our students to develop a comfortable knowledge of science so that they find news articles relating to science interesting rather than intimidating.

New Features in the Ninth Edition In response to suggestions from users and reviewers of the eighth edition, as well as using our own writing and teaching experience, we have thoroughly updated all the text to reflect the latest scientific knowledge. The organization of the 20 chapters remains much the same as in the eighth edition. The major exception lies within

Chapters 5 and 6. Changes in Content Some of the more important changes are as follows: Chapter 6 was substantially revised and has a new title, "Chemical Accounting: Mass and Volume Relationships." We have concentrated much of the quantitative material in this one chapter. We moved the sections on naming chemical compounds from Chapter 6 to Chapter 5. We moved the kinetic-molecular theory from Chapter 5 to Chapter 6. At the request of several users and reviewers, we have added a new section (Section 6.7) on solutions. This addition includes new worked-out examples, exercises, and end-of-chapter problems. We revised much of the early treatment of acid-base chemistry (Chapter 7), making the Brønsted-Lowry treatment more explicit. We added a discussion of half-reactions in Chapter 7, with new worked-out examples, exercises, and end-of-chapter problems. We added a brief discussion of IUPAC naming in Chapter 9. In Chapter 13 we added a brief subsection, "Calculations of Parts per Billion," including a new worked-out example and end-of-chapter problems. We have added new tables and reorganized others. New tables include Physical Properties, Chemical Properties, Potential Energy, and Kinetic Energy (Chapter 1); Mendeleev's Original Periodic Table (Chapter 2); Types of Radiation, Differences Between Chemical and Nuclear Reactions, and Symbols for Subatomic Particles (Chapter 4).

Additions to Pedagogy The following changes have been made to strengthen and improve the pedagogy in this edition. We follow worked-out examples by A and B exercises in some cases. The B exercise is intended to be a bit more challenging, often requiring a knowledge of material from earlier in the book. To improve the organization of the text, we use superheads in some chapters. We use voice balloons in problem solving to carefully guide the student through the process and thus improve the pedagogy. Focusing on the importance of providing interesting, relevant applications, we have added several new box features: Cost-Benefit Analysis and Health Care and Body Temperature, Hypothermia, and Hyperthermia (Fever) (Chapter 1); What a Difference an O Makes, and Recycling (Chapter 2); What Makes for Nuclear Stability? (Chapter 4); Who's Number Is It Anyway? (Chapter 6); Conducting Polymers: Polyacetylene (Chapter 10); Asbestos: Risks and Benefits (Chapter 11); Air Pollution in China, An Air Pollution Episode: London, England, and Wood Smoke (Chapter 12); and Entropy (Chapter 14). We have updated the References and Readings at the end of each chapter. We continue to include Critical Thinking exercises at the end of each chapter. We have chosen several new photographs and produced new diagrams to improve the pedagogy and the visual appeal of the book.

Web-Related Activities For this ninth edition, we have added 12 MediaLabs, which are spread throughout the text and placed appropriately after the chapter to which they relate. Examples include: Chapter 9 MediaLab#151;Fragrances: Stop and Smell the Roses, Chapter 15 MediaLab#151;Genetic Recombination#151;Promise or Peril?, and

Chapter 18 MediaLab#151;Keeping Fit or Overexerting? These MediaLabs help tie the chapter topics to current events and use the power of the internet to explore those events. For this ninth edition, a major change is that we have added web references with brief descriptions as margin notes within each chapter. They can be accessed through the Chemistry for Changing Times World Wide Web Center (prenhall.com/chemistry). We have also added interesting Online Projects at the end of each chapter that may be assigned as a collaborative group or individual activity. Use of Color New color photographs and diagrams have been added. Visual material adds greatly to the general appeal of a textbook. Color diagrams can also be highly instructive, and colorful photographs relating to descriptive chemistry do much to enhance the learning process. Readability Over the years, students have told us that they have found this textbook easy to read. The language is simple, and the style is conversational. Explanations are clear and easy to understand. The friendly tone of the book has been maintained in this edition. Units of Measurement The United States continues to cling to the traditional English system for many kinds of measurement even though the metric system has long been used internationally. A modern version of the metric system, the Syst me International (SI), is now widely used, especially by scientists. So what units should be used in a text for liberal arts students? In presenting chemical principles, we use primarily metric units. In other parts of the book we use those units that the students are most likely to encounter elsewhere in the same context. Chemical Structures The structures of many complicated molecules are presented in the text, especially in the later chapters. These structures are presented mainly to emphasize that they are actually known and to illustrate the fact that substances with similar properties often have similar structures. Students should not feel that they must learn all these structures, but they should take the time to look at them. We hope that they will come to recognize familiar features in these molecules. Glossary The Glossary (Appendix B) gives definitions of terms that appear in boldface throughout the text. These terms include all key terms listed at the end of each chapter. Questions and Problems The end-of-chapter exercises include review questions, a set of matched-pair problems, and suggested projects and online projects. Answers to many review questions and to all the odd-numbered problems are given in Appendix C. Problems are given within some of the chapters, with worked-out examples followed by similar exercises. Answers to all the in-chapter exercises are also given in Appendix C. Re --This text refers to an alternate Hardcover edition.

I frist, read this book in the 5th grade and it was my favorite book, back in 1991. I decided to order it to refresh myself and to finish reading it. I had a bout with mental and physical illness that made me

lose my interest in chemistry, but I fought hard to regain my memory that I lost from PTSD and neurological problems. When I regained enough memory, I regained my chemistry hobby and I decided to order this very well written and well detailed book. I am enjoying this book, very much and am reading it while I develop my own concepts, since not only am I an amateur chemist and amateur theoretical physicist. This book has been helpful. I am very glad to see that this book is being still sold and at least that it is available.

Good Price. Great Product. Product selection delivered in excellent condition.

Used in college in 2010, but thought it was great.

Good book good price.nearly new.very happy

All good. Thanks much for your service.

Good Price. Great Product. Recieved Product if excellent condition.

Good price Great Product Received Product in Excellent condition.

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