

Chapter 16 Solubility And Complex Ion Equilibria

This book gives the reader an introduction to the field of surfactants in solution as well as polymers in solution. Starting with an introduction to surfactants the book then discusses their environmental and health aspects. Chapter 3 looks at fundamental forces in surface and colloid chemistry. Chapter 4 covers self-assembly and 5 phase diagrams. Chapter 6 reviews advanced self-assembly while chapter 7 looks at complex behaviour. Chapters 8 to 10 cover polymer adsorption at solid surfaces, polymers in solution and surface active polymers, respectively. Chapters 11 and 12 discuss adsorption and surface and interfacial tension, while Chapters 13- 16 deal with mixed surfactant systems. Chapter 17, 18 and 19 address microemulsions, colloidal stability and the rheology of polymer and surfactant solutions. Wetting and wetting agents, hydrophobization and hydrophobizing agents, solid dispersions, surfactant assemblies, foaming, emulsions and emulsifiers and microemulsions for soil and oil removal complete the coverage in chapters 20-25.

This bestselling text continues to lead the way with a strong focus on current issues, pedagogically rich framework, wide variety of medical and biological applications, visually dynamic art program, and exceptionally strong and varied end-of-chapter problems. Revised and updated throughout, the tenth edition now includes new biochemistry content, new Chemical Connections essays, new and revised problems, and more. Most end of chapter problems are now available in the OWL online learning system. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Table of contents: 1. Matter. 2. Measurements and moles. 3. Chemical reactions. 4. Chemistry's accounting: reaction stoichiometry. 5. The properties of gases. 6. Thermochemistry: the fire within. 7. Atomic structure and the periodic table. 8. Chemical bonds. 9. Molecular structure. 10. Liquids and solids. 11. Carbon-based materials. 12. The properties of solutions. 13. The rates of reactions. 14. Chemical equilibrium. 15. Acids and bases. 16. Aqueous equilibria. 17. The direction of chemical change. 18. Electrochemistry. 19. The elements: the first four main groups. 20. The elements: the last four main groups. 21. The d block: metals in transition. 22. Nuclear chemistry. Appendices. Glossary. Answers. Illustration credits. Index.

Study more effectively and improve your performance at exam time with this comprehensive guide. The study guide includes: chapter summaries that highlight the main themes, study goals with section references, solutions to all textbook Example problems, and over 1,500 practice problems for all sections of the textbook. The Study Guide helps you organize the material and practice applying the concepts of the core text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Using an applications perspective Thermodynamic Models for Industrial Applications provides a unified framework for the development of various thermodynamic models, ranging from the classical models to some of the most advanced ones. Among these are the Cubic Plus Association Equation of State (CPA EoS) and the Perturbed Chain Statistical Association Fluid Theory (PC-SAFT). These two advanced models are already in widespread use in industry and academia, especially within the oil and gas, chemical and polymer industries. Presenting both

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classical models such as the Cubic Equations of State and more advanced models such as the CPA, this book provides the critical starting point for choosing the most appropriate calculation method for accurate process simulations. Written by two of the developers of these models, *Thermodynamic Models for Industrial Applications* emphasizes model selection and model development and includes a useful “which model for which application” guide. It also covers industrial requirements as well as discusses the challenges of thermodynamics in the 21st Century.

This fully updated Ninth Edition of Steven and Susan Zumdahl's *CHEMISTRY* brings together the solid pedagogy, easy-to-use media, and interactive exercises that today's instructors need for their general chemistry course. Rather than focusing on rote memorization, *CHEMISTRY* uses a thoughtful approach built on problem-solving. For the Ninth Edition, the authors have added a new emphasis on critical systematic problem solving, new critical thinking questions, and new computer-based interactive examples to help students learn how to approach and solve chemical problems--to learn to think like chemists--so that they can apply the process of problem solving to all aspects of their lives. Students are provided with the tools to become critical thinkers: to ask questions, to apply rules and develop models, and to evaluate the outcome. In addition, Steven and Susan Zumdahl crafted ChemWork, an online program included in OWL Online Web Learning to support their approach, much as an instructor would offer support during office hours. ChemWork is just one of many study aids available with *CHEMISTRY* that supports the hallmarks of the textbook--a strong emphasis on models, real world applications, visual learning, and independent problem solving. Available with InfoTrac Student Collections <http://gocengage.com/infotrac>. Important Notice: Media content referenced

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within the product description or the product text may not be available in the ebook version. Masterton/Hurley/Neth's CHEMISTRY: PRINCIPLES AND REACTIONS, 7e, takes students directly to the crux of chemistry's fundamental concepts and allows you to efficiently cover all topics found in the typical general chemistry book. Based on the authors' extensive teaching experience, this updated edition includes new concept-driven, rigorous examples, updated examples that focus on molecular reasoning and understanding, and Chemistry: Beyond the Classroom essays that demonstrate the relevance of the concepts and highlight some of the most up-to-date uses of chemistry. A strong, enhanced art program assists students in visualizing chemical concepts. Integrated end-of-chapter questions and Key Concepts correlate to OWL Online Learning, the #1 online homework and tutorial system for chemistry. OWL also includes an interactive eBook for the 7th edition of the textbook and an optional ebook for the Student Study Guide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Packed with the information, examples and problems you need to learn to think like a chemist, CHEMISTRY: AN ATOMS FIRST APPROACH, Third Edition is designed to help you become an independent problem-solver. The text begins with coverage of the atom and proceeds through the concept of molecules, structure and bonding. This approach, different from your high school course, will help you become an adept critical thinker and a strong problem-solver -- skills that will be useful to you in any career. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This book is the latest edition of this comprehensive guide to biochemical sciences. Fully updated and reorganised, the new edition includes brand new chapters, over 1000 new multiple choice questions, and over 100 new clinical case histories. This edition of Biochemistry contains over 200 illustrations and tables, and a glossary of terms, making it an ideal reference tool for undergraduates.

Learn the skills you need to succeed in your chemistry course with CHEMISTRY, Tenth Edition. This trusted text has helped generations of students learn to “think like chemists” and develop problem-solving skills needed to master even the most challenging problems. Clear explanations and interactive examples help you build confidence for the exams, so that you can study to understand rather than simply memorize. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Bridging the gap between basic and clinical science concepts, the Textbook of Veterinary Physiological Chemistry, Third Edition offers broad coverage of biochemical principles for students and practitioners of veterinary medicine. The only recent biochemistry book written specifically for the veterinary field, this text covers cellular-level concepts related to whole-body physiologic processes in a reader-friendly, approachable manner. Each chapter is written in a succinct and concise style that includes an overview summary section, numerous illustrations for best comprehension of the subject matter, targeted learning objectives, and end of the chapter study

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questions to assess understanding. With new illustrations and an instructor website with updated PowerPoint images, the Textbook of Veterinary Physiological Chemistry, Third Edition, proves useful to students and lecturers from diverse educational backgrounds. Sectional exams and case studies, new to this edition, extend the breadth and depth of learning resources. Provides newly developed case studies that demonstrate practical application of concepts Presents comprehensive sectional exams for self-assessment Delivers instructor website with updated PowerPoint images and lecture slides to enhance teaching and learning Employs a succinct communication style in support of quick comprehension

The tools you need to ace your Chemistry II course College success for virtually all science, computing, engineering, and premedical majors depends in part on passing chemistry. The skills learned in chemistry courses are applicable to a number of fields, and chemistry courses are essential to students who are studying to become nurses, doctors, pharmacists, clinical technicians, engineers, and many more among the fastest-growing professions. But if you're like a lot of students who are confused by chemistry, it can seem like a daunting task to tackle the subject. That's where Chemistry II For Dummies can help! Here, you'll get plain-English, easy-to-understand explanations of everything you'll encounter in your Chemistry II class. Whether chemistry is your chosen area of study, a degree requirement, or an elective, you'll get the skills and confidence to score high and enhance your understanding of this often-intimidating

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subject. So what are you waiting for? Presents straightforward information on complex concepts Tracks to a typical Chemistry II course Serves as an excellent supplement to classroom learning Helps you understand difficult subject matter with confidence and ease Packed with approachable information and plenty of practice opportunities, Chemistry II For Dummies is just what you need to make the grade.

Multifunctional Systems for Combined Delivery, Biosensing, and Diagnostics explores how multifunctional nanocarriers are being used in combined delivery and diagnostics in contemporary medicine. Particular attention is given to efforts to i) reduce the side effects of therapeutic agents, ii) increase the pharmacological effect, and iii) improve aqueous solubility and chemical stability of different therapeutic agents. The chapters focus on applications of nanostructured materials and nanocarriers, highlighting how these can be used effectively in both diagnosis and delivery. This applied focus makes the book an important reference source for those wanting to learn more about how specific nanomaterials and nanotechnology systems can help to solve drug delivery and diagnostics problems. This book is a valuable resource for materials scientists, bioengineers, and medical researchers who are looking for an applications-oriented guide on how nanotechnology and nanomaterials can be used effectively throughout the medical treatment process, from diagnosis to treatment. Explores the benefits of using a variety of nanomaterials as drug delivery agents Explains how nanocarriers can reduce the side effects of therapeutic agents Provides an analysis of the pros and cons

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of using specific nanocarriers to solve particular diagnosis and delivery problems

Long considered the standard for honors and high-level mainstream general chemistry courses, PRINCIPLES OF MODERN CHEMISTRY continues to set the standard as the most modern, rigorous, and chemically and mathematically accurate text on the market. This authoritative text features an "atoms first" approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure (Chapter 6), Electrochemistry (Chapter 17), and Molecular Spectroscopy and Photochemistry (Chapter 20). In addition, the text utilizes mathematically accurate and artistic atomic and molecular orbital art, and is student friendly without compromising its rigor. End-of-chapter study aids focus on only the most important key objectives, equations and concepts, making it easier for students to locate chapter content, while applications to a wide range of disciplines, such as biology, chemical engineering, biochemistry, and medicine deepen students' understanding of the relevance of chemistry beyond the classroom.

Written with the non-scientist in mind, this book employs the molecule and its interactions to explain the characteristics of living organisms in terms of the underlying chemistry of life. Following introductory chapters on the fundamentals of life, attention then turns to small molecules such as hormones and neurotransmitters and subsequently to macromolecules including proteins and nucleic acids. The interactions between small and macromolecules remains a

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central point throughout the book. These include enzymatic catalysis, hormone action, neurotransmission, regulation of metabolism, biosynthesis of macromolecules, the mechanism of action of drugs, taste, olfaction, learning and memory, and chemical communication. A second central point of emphasis is the sensitive relationship between chemical structure and biological activity.

Examples abound and include why subtle changes in fatty acid architecture have positive or negative outcomes for human health in omega-three fatty acids and trans fats and how modest changes in the chemical decoration of the steroid skeleton provide the difference between male and female sex hormones. Beyond these examples taken from the chemistry of small molecules, the book includes a thoughtful consideration of genomics, including the relationship between genome structure and species. The theme of human health appears throughout the book. Cardiovascular medicine, cancer, metabolic diseases, and diseases of the nervous system receive significant attention including consideration of how a variety of drugs work in combating these issues. In sum, the goal of this book is to inform the non-scientist community in a way that will lead to increased understanding of the relationship between chemistry and life.

A text that truly embodies its name, CHEMISTRY: PRINCIPLES AND PRACTICE connects the chemistry students learn in the classroom (principles) with real-

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world uses of chemistry (practice). The authors accomplish this by starting each chapter with an application drawn from a chemical field of interest and revisiting that application throughout the chapter. The Case Studies, Practice of Chemistry essays, and Ethics in Chemistry questions reinforce the connection of chemistry topics to areas such as forensics, organic chemistry, biochemistry, and industry. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The clearest coverage available of diffusion and mass transfer, which is a key part of the chemical engineering curriculum.

Bioconjugate Techniques, 3rd Edition, is the essential guide to the modification and cross linking of biomolecules for use in research, diagnostics, and therapeutics. It provides highly detailed information on the chemistry, reagent systems, and practical applications for creating labeled or conjugate molecules. It also describes dozens of reactions, with details on hundreds of commercially available reagents and the use of these reagents for modifying or crosslinking peptides and proteins, sugars and polysaccharides, nucleic acids and oligonucleotides, lipids, and synthetic polymers. Offers a one-stop source for proven methods and protocols for synthesizing bioconjugates in the lab Provides step-by-step presentation makes the book an ideal source for researchers who

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are less familiar with the synthesis of bioconjugates Features full color illustrations Includes a more extensive introduction into the vast field of bioconjugation and one of the most thorough overviews of immobilization chemistry ever presented

The pre-eminent reference on coagulation disorders is now in its thoroughly updated Fifth Edition. Written by more than 160 of the world's foremost authorities, this encyclopedic volume integrates basic science and clinical practice and details all that is currently known about blood clotting disorders and how to manage patients with these and related problems. This edition has been reorganized into smaller, more tightly focused chapters to help readers find information easily. A new co-editor, Samuel Z. Goldhaber, MD, has expanded the cardiology portion of the book. Other new features include a two-color page design and more than 100 full-color illustrations.

Expert biochemist N.V. Bhagavan's new work condenses his successful Medical Biochemistry texts along with numerous case studies, to act as an extensive review and reference guide for both students and experts alike. The research-driven content includes four-color illustrations throughout to develop an understanding of the events and processes that are occurring at both the molecular and macromolecular levels of physiologic regulation, clinical effects, and

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interactions. Using thorough introductions, end of chapter reviews, fact-filled tables, and related multiple-choice questions, Bhagavan provides the reader with the most condensed yet detailed biochemistry overview available. More than a quick survey, this comprehensive text includes USMLE sample exams from Bhagavan himself, a previous coauthor. * Clinical focus emphasizing relevant physiologic and pathophysiologic biochemical concepts * Interactive multiple-choice questions to prep for USMLE exams * Clinical case studies for understanding basic science, diagnosis, and treatment of human diseases * Instructional overview figures, flowcharts, and tables to enhance understanding

Written in a succinct style with each chapter including an overview summary section, numerous illustrations for best comprehension, and end of the chapter questions to assess understanding, *The Textbook of Veterinary Physiological Chemistry* offers broad coverage of biochemical principles for students studying veterinary medicine. Since first year students come into programs with different scientific backgrounds, this text offers students foundational concepts in physiological chemistry and offers numerous opportunities for practice. Bridging the gap between science and clinical application of concepts, this textbook covers cellular level concepts related to the biochemical processes in the entire animal in a student-friendly, approachable manner. **KEY FEATURES Updated**

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four color interior design Coverage of cellular level concepts related to biochemical processes in entire animal Written in a succinct manner for quick comprehension Relevant biochemical and physiologic concepts integrated in an up-to-date, accurate and reliable fashion Succinct content for quick comprehension Numerous instructional figures and tables Helpful learning objectives and multiple choice questions at the end of each chapter

Silicate Glasses and Melts, Second Edition describes the structure-property-composition relationships for silicate glasses and melts from a geological and industrial perspective. Updated sections include (i) characterization of silicate melt and COHN fluid structure (with and without dissolved silicate components) with pressure, temperature, and redox conditions and responses of structural variables to chemical composition, (ii) determination of solubility and solution mechanisms of COHN volatiles in silicate melts and minerals and of solubility and solution mechanisms of silicate components in COHN fluids, and (iii) effects of very high pressure on structure and properties of melts and glasses. This new book is an essential resource for researchers in a number of fields, including geology, geophysics, geoscience, volcanology, material science, glass science, petrology and mineralogy. Brings together multidisciplinary research scattered across the scientific literature into one reference, with a focus on silicate melts and their application to natural systems Emphasizes linking melt properties to melt structure Includes a discussion of the pros and cons of the use of

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glass as a proxy for melt structure and properties Written by highly regarded experts in the field who, among other honors, were the 2006 recipients of the prestigious G.W. Morey award of the American Ceramic Society

Industrial Applications of Nanomaterials explains the industry based applications of nanomaterials, along with their environmental impacts, lifecycle analysis, safety and sustainability. This book brings together the industrial applications of nanomaterials with the incorporation of various technologies and areas, covering new trends and challenges. Significant properties, safety and sustainability and environmental impacts of synthesis routes are also explored, as are major industrial applications, including agriculture, medicine, communication, construction, energy, and in the military. This book is an important information source for those in research and development who want to gain a greater understanding of how nanotechnology is being used to create cheaper, more efficient products. Explains how different classes of nanomaterials are being used to create cheaper, more efficient products Explores the environmental impacts of using a variety of nanomaterials Discusses the challenges faced by engineers looking to integrate nanotechnology in new product development

Softcover

Study Guide to Accompany Basics for Chemistry is an 18-chapter text designed to be used with Basics for Chemistry textbook. Each chapter contains Overview, Topical Outline, Skills, and Common Mistakes, which are all keyed to the textbook for easy

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cross reference. The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms, a summary of general concepts, and a list of numerical exercises, while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook. The Fill-in, Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples. The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry, while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter. After briefly dealing with an overview of chemistry, this book goes on exploring the concept of matter, energy, measurement, problem solving, atom, periodic table, and chemical bonding. These topics are followed by discussions on writing names and formulas of compounds; chemical formulas and the mole; chemical reactions; calculations based on equations; gases; and the properties of a liquid. The remaining chapters examine the solutions; acids; bases; salts; oxidation-reduction reactions; electrochemistry; chemical kinetics and equilibrium; and nuclear, organic, and biological chemistry. This study guide will be of great value to chemistry teachers and students.

Carbon in Earth's fluid envelopes - the atmosphere, biosphere, and hydrosphere, plays

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a fundamental role in our planet's climate system and a central role in biology, the environment, and the economy of earth system. The source and original quantity of carbon in our planet is uncertain, as are the identities and relative importance of early chemical processes associated with planetary differentiation. Numerous lines of evidence point to the early and continuing exchange of substantial carbon between Earth's surface and its interior, including diamonds, carbon-rich mantle-derived magmas, carbonate rocks in subduction zones and springs carrying deeply sourced carbon-bearing gases. Thus, there is little doubt that a substantial amount of carbon resides in our planet's interior. Yet, while we know it must be present, carbon's forms, transformations and movements at conditions relevant to the interiors of Earth and other planets remain uncertain and untapped. Volume highlights include: - Reviews key, general topics, such as carbonate minerals, the deep carbon cycle, and carbon in magmas or fluids - Describes new results at the frontiers of the field with presenting results on carbon in minerals, melts, and fluids at extreme conditions of planetary interiors - Brings together emerging insights into carbon's forms, transformations and movements through study of the dynamics, structure, stability and reactivity of carbon-based natural materials - Reviews emerging new insights into the properties of allied substances that carry carbon, into the rates of chemical and physical transformations, and into the complex interactions between moving fluids, magmas, and rocks to the interiors of Earth and other planets - Spans the various chemical redox states of

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carbon, from reduced hydrocarbons to zero-valent diamond and graphite to oxidized CO₂ and carbonates - Captures and synthesizes the exciting results of recent, focused efforts in an emerging scientific discipline - Reports advances over the last decade that have led to a major leap forward in our understanding of carbon science - Compiles the range of methods that can be tapped tap from the deep carbon community, which includes experimentalists, first principles theorists, thermodynamic modelers and geodynamicists - Represents a reference point for future deep carbon science research

Carbon in Planetary Interiors will be a valuable resource for researchers and students who study the Earth's interior. The topics of this volume are interdisciplinary, and therefore will be useful to professionals from a wide variety of fields in the Earth Sciences, such as mineral physics, petrology, geochemistry, experimentalists, first principles theorists, thermodynamics, material science, chemistry, geophysics and geodynamics.

Master problem-solving using the detailed solutions in this manual, which contains answers and solutions to all odd-numbered, end-of-chapter exercises. Solutions are divided by section for easy reference. With this guide, the author helps you achieve a deeper, intuitive understanding of the material through constant reinforcement and practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Role of mminants in human food production; Whyan animal scientist would choose to

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model animal systems; Basic organization of this book; Modeling principles and terminology; Classification of models; Objectives in modeling; The modeling process I objective statements, block diagrams, equation forms and parameterization; Steps in modeling; Setting the modeling objective; Block diagrams; Formulation of mathematical statements; Development of numerical inputs; The modeling process II - solution algorithms, model evaluations and parameter estimation; Model solution algorithms; Evaluation of management and research models; Evaluation and use of analytical models for parameter estimation; Decision support software; Animal energetic models; Thermodynamic concepts in nutrition; Historical development of bases for feeding system models; Energy requirements for maintenance and production; Equations used to estimate maintenance and costs of production; Components of maintenance; Protein and amino acid models; Current protein and amino acid systems; Analytic models of amino acid and protein metabolism; Dynamic modeling; Biology and algebraic models of ruminant digestion; The rumen microbes and their metabolism; Balance models of ruminant digestion; An analytical model of rumen digestion; Microbial growth elements; Biology and algebraic models of growth; Classical equations for growth; Nutritional models of growth; Concepts of the basic biology of growth used in mechanistic models; Biology of lactation; Decent evolution of feeding systems for lactating dairy cattle; An analytical model of nutrient transactions during lactation; Dynamic models of ruminant digestion; Early dynamic models; Current dynamic

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models; Dynamic models of ruminant adipose tissue metabolism; Evolution of steady-state balance model; Radioisotope tracer elements; Dynamic models of ruminant mammary metabolism; Development of model inputs and initial parameters; Descriptions of a model of mammary gland metabolism; Dynamic models of liver and viscera metabolism; Overall structure and notation; Mechanistic, dynamic models of growth; Beef growth models; Sheep growth and metabolism model; Lactation Background on MOLL Y. CSL; The program MOLL Y. CSL; Evaluation and use of a growth and lactation model; Behavioral analyses; Sensitivity analyses; Bioeconomic analysis.

This book offers concise information on the properties of polymeric materials, particularly those most relevant to physical chemistry and chemical physics. Extensive updates and revisions to each chapter include eleven new chapters on novel polymeric structures, reinforcing phases in polymers, and experiments on single polymer chains. The study of complex materials is highly interdisciplinary, and new findings are scattered among a large selection of scientific and engineering journals. This book brings together data from experts in the different disciplines contributing to the rapidly growing area of polymers and complex materials.

The image on the front cover depicts a carbon nanotube emerging from a

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glowing plasma of hydrogen and carbon, as it forms around particles of a metal catalyst. Carbon nanotubes are a recently discovered allotrope of carbon. Three other allotropes of carbon-buckyballs, graphite, and diamond-are illustrated at the left, as is the molecule methane, CH_4 , from which nanotubes and buckyballs can be made. The element carbon forms an amazing number of compounds with structures that follow from simple methane, found in natural gas, to the complex macromolecules that serve as the basis of life on our planet. The study of chemistry also follows from the simple to the more complex, and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement.

Chemical processes shape the world we live in; the air we breathe, the water we drink, the weather we experience. Environmental Chemistry: a global perspective describes those chemical principles which underpin the natural processes occurring within and between the air, water, and soil, and explores how human activities impact on these processes, giving rise to environmental issues of global concern. Guiding us through the chemical composition of the three key environmental systems - the atmosphere, hydrosphere, and terrestrial environment - the authors explain the chemical processes which occur within and between each system. Focusing on general principles, we are introduced to the

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essential chemical concepts which allow better understanding of air, water, and soil and how they behave; careful explanations ensure that clarity is not sacrificed at the expense of thorough coverage of the underlying chemistry. We then see how human activity continues to affect the chemical behaviour of these environmental systems, and what the consequences of these natural processes being disturbed can be. Environmental Chemistry: a global perspective takes chemistry out of the laboratory, and shows us its importance in the world around us. With illuminating examples from around the globe, its rich pedagogy, and broad, carefully structured coverage, this book is the perfect resource for any environmental chemistry student wishing to develop a thorough understanding of their subject.

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