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Carefully crafted to provide a comprehensive overview of the chemistry of water in the environment, *Water Chemistry: Green Science and Technology of Nature's Most Renewable Resource* examines water issues within the broad framework of sustainability, an issue of increasing importance as the demands of Earth ' s human population threaten to overwhelm the planet ' s carrying

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capacity. Renowned environmental author Stanley Manahan provides more than just basic coverage of the chemistry of water. He relates the science and technology of this amazing substance to areas essential to sustainability science, including environmental and green chemistry, industrial ecology, and green (sustainable) science and technology. The inclusion of a separate chapter that comprehensively covers energy, including renewable and emerging sources, sets this book apart. Manahan explains how the hydrosphere relates to the geosphere, atmosphere, biosphere,

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and anthrosphere. His approach views Planet Earth as consisting of these five mutually interacting spheres. He covers biogeochemical cycles and the essential role of water in these basic cycles of materials. He also defines environmental chemistry and green chemistry, emphasizing water ' s role in the practice of each. Manahan highlights the role of the anthrosphere, that part of the environment constructed and operated by humans. He underscores its overwhelming influence on the environment and its pervasive effects on the hydrosphere. He also covers the essential role that

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water plays in the sustainable operation of the anthrosphere and how it can be maintained in a manner that will enable it to operate in harmony with the environment for generations to come. Written at an intermediate level, this is an appropriate text for the study of current affairs in environmental chemistry. It provides a review and grounding in basic and organic chemistry for those students who need it and also fills a niche for an aquatic chemistry book that relates the hydrosphere to the four other environmental spheres.

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easy equilibrium equation

For courses in Systems Analysis and Design, Structured A clear presentation of information, organized around the systems development life cycle model This briefer version of the authors ' highly successful Modern System Analysis and Design is a clear presentation of information, organized around the systems development life cycle model. Designed for courses needing a streamlined approach to the material due to course duration, lab assignments, or special projects, it emphasizes current changes in systems analysis

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and design, and shows the concepts in action through illustrative fictional cases. Teaching and Learning Experience This text will provide a better teaching and learning experience—for you and your students. Here's how: Features a clear presentation of material which organizes both the chapters and the book around The Systems Development Life Cycle Model, providing students with a comprehensive format to follow. Provides the latest information in systems analysis and design Students see the concepts in action in three illustrative fictional cases

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Written by Stanley Manahan, Fundamentals of Sustainable Chemical Science has been carefully designed to provide a basic introduction to chemistry, including organic chemistry and biochemistry, for readers with little or no prior background in the subject. Manahan, bestselling author of many environmental texts, presents the material in a practical

Biochemistry

Genetics

Green Science and Technology of Nature's Most Renewable Resource

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Organic Chemistry + Workbook + Solutions
Manual/Study Guide

The collection of contributions in this volume presents the most up-to-date findings in catalytic hydrogenation. The individual chapters have been written by 36 top specialists each of whom has achieved a remarkable depth of coverage when dealing with his particular topic. In addition to detailed treatment of the most recent problems connected with catalytic hydrogenations, the book also contains a number of previously unpublished

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results obtained either by the authors themselves or within the organizations to which they are affiliated. Because of its topical and original character, the book provides a wealth of information which will be invaluable not only to researchers and technicians dealing with hydrogenation, but also to all those concerned with homogeneous and heterogeneous catalysis, organic technology, petrochemistry and chemical engineering.

Colour and the Optical Properties of Materials carefully introduces the science behind the subject, along with many modern and cutting-edge

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applications, chosen to appeal to today's students. For science students, it provides a broad introduction to the subject and the many applications of colour. To more applied students, such as engineering and arts students, it provides the essential scientific background to colour and the many applications. New to this Edition: The chapter framework of the first edition will be retained, with each chapter being substantially rewritten and some material would be relocated. Some chapters will be rewritten in a clearer fashion, e.g. There have been no significant advances in the understanding of

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rainbows recently, but the text could be clarified and improved. Colour has been an important attribute of many nano-particle containing systems, such as quantum dots. This aspect will be included, e.g. the colour of gold ruby glass, described in Chapter 5 as part of scattering phenomena now is better treated in terms of gold nanoparticles and surface plasmons. This would probably be transferred to Chapter 10 and considered in tandem with the colour of metals such as copper, silver and gold. A similar state of affairs applies to silver nanoparticles and polychromic glass. Some chapters

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will include extensive new material, e.g. Chapter 8, colours due to molecular processes [organic LEDs etc], and Chapter 12, Displays, [touch screen technologies]. For all chapters it would be intended to take into account the current scientific literature up to the time of submission – say up to the end of 2009. The end of chapter Further Reading sections would reflect this up-to-date overview. The end of chapter problems will be strengthened and expanded.

With authors who are both accomplished researchers and educators, Vollhardt and Schore's

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Organic Chemistry takes a functional group approach with a heavy emphasis on understanding how the structure of a molecule determines how that molecule will function in chemical reactions. By understanding the connection between structure and function, students will be better prepared to understand mechanisms and solve practical problems in organic chemistry. The new edition brings in the latest research breakthroughs and applications, expanded problem-solving help, and new online homework options. With authors who are both accomplished

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researchers and educators, Vollhardt and Schore's Organic Chemistry is proven effective for making contemporary organic chemistry accessible, introducing cutting-edge research in a fresh, student-friendly way. A wealth of unique study tools help students organize and understand the substantial information presented in this course. And in the sixth edition, the themes of understanding reactivity, mechanisms, and synthetic analysis to apply chemical concepts to realistic situations has been strengthened. New applications of organic chemistry in the life sciences, industrial practices,

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green chemistry, and environmental monitoring and clean-up are incorporated. This edition includes more than 100 new or substantially revised problems, including new problems on synthesis and green chemistry, and new “challenging” problems.

Reactions, Mechanisms, and Structure

Chemical Principles

Structure and Function

Advanced Organic Chemistry

Study Guide/Solutions Manual for Organic Chemistry

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Written by an expert, using the same approach that made the previous two editions so successful, *Fundamentals of Environmental Chemistry, Third Edition* expands the scope of book to include the strongly emerging areas broadly described as sustainability science and technology, including green chemistry and industrial ecology. The new edition includes: Increased emphasis on the applied aspects of environmental chemistry Hot topics such as global warming and biomass energy Integration of green chemistry and sustainability concepts throughout the text More and updated questions and answers, including some that

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require Internet research Lecturers Pack on CD-ROM with solutions manual, PowerPoint presentations, and chapter figures available upon qualifying course adoptions The book provides a basic course in chemical science, including the fundamentals of organic chemistry and biochemistry. The author uses real-life examples from environmental chemistry, green chemistry, and related areas while maintaining brevity and simplicity in his explanation of concepts. Building on this foundation, the book covers environmental chemistry, broadly defined to include sustainability aspects, green chemistry,

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industrial ecology, and related areas. These chapters are organized around the five environmental spheres, the hydrosphere, atmosphere, geosphere, biosphere, and the anthrosphere. The last two chapters discuss analytical chemistry and its relevance to environmental chemistry. Manahan's clear, concise, and readable style makes the information accessible, regardless of the readers' level of chemistry knowledge. He demystifies the material for those who need the basics of chemical science for their trade, profession, or study curriculum, as well as for readers who want to have an

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understanding of the fundamentals of sustainable chemistry in its crucial role in maintaining a livable planet.

Featuring new experiments, a new essay, and new coverage of nanotechnology, this organic chemistry laboratory textbook offers a comprehensive treatment of laboratory techniques including small-scale and some microscale methods that use standard-scale (macroscale) glassware and equipment. The book is organized based on essays and topics of current interest and covers a large number of traditional organic reactions and syntheses, as well as experiments with a

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biological or health science focus. Seven introductory technique-based experiments, thirteen project-based experiments, and sections on green chemistry and biofuels spark students' interest and engage them in the learning process. Instructors may choose to offer Cengage Learning's optional Premium Website, which contains videos on basic organic laboratory techniques. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Updated for the Eighth Edition of
Vollhardt/Schore, Organic Chemistry, and

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written by the book's coauthor, Neil Schore, this invaluable manual includes chapter introductions that highlight new material, chapter outlines, detailed comments for each chapter section, a glossary, and solutions to the end-of-chapter problems, presented in a way that shows students how to reason their way to the answer.

This textbook provides students with a framework for organizing their approach to the course - dispelling the notion that organic chemistry is an overwhelming, shapeless body of facts.

Water Chemistry

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An Exploration of the Relationship Between Light, the Optical Properties of Materials and Colour

A Contemporary Approach

For Organic Chemistry, Fourth Edition

Workbook for Organic Chemistry

Written for calculus-inclusive general chemistry courses, *Chemical Principles* helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications. Unlike other texts, it begins with a detailed picture of the atom

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then builds toward chemistry's frontier, continually demonstrating how to solve problems, think about nature and matter, and visualize chemical concepts as working chemists do. Flexibility in level is crucial, and is largely established through clearly labeling (separating in boxes) the calculus coverage in the text: Instructors have the option of whether to incorporate calculus in the coverage of topics. The multimedia integration of Chemical Principles is more deeply established than any other text for this

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course. Through the unique eBook, the comprehensive Chemistry Portal, Living Graph icons that connect the text to the Web, and a complete set of animations, students can take full advantage of the wealth of resources available to them to help them learn and gain a deeper understanding.

This general, organic, and biochemistry text has been written for students preparing for careers in health-related fields such as nursing, dental hygiene, nutrition, medical technology, and

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occupational therapy. It is also suited for students majoring in other fields where it is important to have an understanding of the basics of chemistry. Students need have no previous background in chemistry, but should possess basic math skills. The text features numerous helpful problems and learning features. New edition of the acclaimed organic chemistry text that brings exceptional clarity and coherence to the course by focusing on the relationship between structure and function.

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this knowledge alive and relevant.

Techniques in Organic Chemistry

Molecular Biology

Organic Structures from Spectra

Organic chemistry

ChemCom

This book summarizes 100 essential mechanisms in organic chemistry ranging from classical such as the Reformatsky Reaction from 1887 to recently elucidated mechanism such as the copper(I)-catalyzed alkyne-azide cycloaddition. The reactions are easy to grasp, well-illustrated and underpinned with explanations and additional

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information.

This survey of advanced chemistry covers virtually all the useful reactions--600 all told--with the scope, limitations, and mechanism of each described in detail. Extensive general sections on the mechanisms of the important reaction types, and five chapters on the structure and stereochemistry of organic compounds and reactive intermediates are included as well. Of the more than 10,000 references included, 5,000 are new in this edition. Featuring new experiments unique to this lab textbook, as well as new and revised essays and updated techniques, this Sixth Edition provides the

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up-to-date coverage students need to succeed in their coursework and future careers. From biofuels, green chemistry, and nanotechnology, the book's experiments, designed to utilize microscale glassware and equipment, demonstrate the relationship between organic chemistry and everyday life, with project-and biological or health science focused experiments. As they move through the book, students will experience traditional organic reactions and syntheses, the isolation of natural products, and molecular modeling.

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be available in the ebook version.

The chemistry, biochemistry and pharmacology of heparin and heparan sulfate have been and continue to be a major scientific undertaking - heparin and its derivative remain important drugs in clinical practice. **Chemistry and Biology of Heparin and Heparan Sulfate** provides readers with an insight into the chemistry, biology and clinical applications of heparin and heparan sulfate and examines their function in various physiological and pathological conditions. Providing a wealth of useful information, no other tome covers the diversity of topics in the field. **Students, doctors, chemists,**

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biochemists, and research scientists will find this book an invaluable source for updating their current knowledge of developments in this area.

Comprehensively reviews all aspects of heparin and heparan sulfate research Uniquely describes the chemistry, biology and clinical application of heparins and heparan sulfates in one work Provides an invaluable source of knowledge of current developments for chemists, biochemists, medical doctors, researchers, students and practitioners

Organic Chemistry, Fourth Edition

Colour and the Optical Properties of Materials

Introduction to Organic Laboratory Techniques

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Organic Chemistry: 100 Must-Know Mechanisms
The 2nd Canadian edition of Genetics: From Genes to Genomes emphasizes not only the core concepts of genetics, but also the cutting-edge discoveries, modern tools, and analytical methods that have made the science of genetics the exciting, vibrant, and dynamic discipline that it is today. This edition continues to build upon the integration of Mendelian and molecular principles, providing students with the links between early genetics understanding and the

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new molecular discoveries that have changed the way the field of genetics is viewed. Genetics: From Genes to Genomes, 2nd Canadian Edition, takes an integrated approach in its presentation of genetics, thereby giving students a strong command of genetics as practiced today by academic and corporate researchers. Principles are related throughout the text in examples, essays, case histories, and Connections sections to make sure students fully understand the relationships between topics. McGraw-Hill Connect is an award-winning digital teaching

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and learning platform that helps students get better results, learn and study more efficiently; while helping instructors to increase student engagement, save time with course management, and improve overall course retention. Connect includes SmartBook, the first and only adaptive reading experience that changes reading from a passive and linear experience, to an engaging and dynamic one. Students' retain more concepts and come to class better prepared. Connect access is available for students to purchase separately, or

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available to package with the print text.

Offers a realistic approach to solving problems used by organic chemists. Covering all the major spectroscopic techniques, it provides a graded set of problems that develop and consolidate students' understanding of organic spectroscopy. This edition contains more elementary problems and a modern approach to NMR spectra.

In addition to covering thoroughly the core areas of physical organic chemistry -structure and mechanism - this book will escort the

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practitioner of organic chemistry into a field that has been thoroughly updated.

"Compatible with standard taper miniscale, 14/10 standard taper microscale, Williamson microscale. Supports guided inquiry"--Cover.

Fundamentals of Environmental Chemistry, Third Edition

Part A: Structure and Mechanisms

Modern Physical Organic Chemistry

Study Guide and Solutions Manual

General Organic and Biological Chemistry

Textbook on modern methods of organic

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synthesis.

“A deeply felt, vivacious and wonderfully illustrated biography.” –Clancy Sigal, Los Angeles Times Book Review A self-described “desert rat” who rocketed to fame at the age of twenty-two, Bill Mauldin used flashing black brush lines and sardonic captions to capture the world of the American combat soldier in World War II. His cartoon dogfaces, Willie and Joe, appeared in Stars and Stripes and hundreds of newspapers back home, bearing grim witness to life in the foxhole. We’ve

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never viewed war in the same way since. This lushly illustrated biography draws on private papers, correspondence, and thousands of original drawings to render a full portrait of a complex and quintessentially American genius.

Organic Chemistry Structure and Function
W. H. Freeman

The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the

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previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

Essentials of Systems Analysis and Design,

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Global Edition

March's Advanced Organic Chemistry

Catalytic Hydrogenation

A Small Scale Approach to Organic

Laboratory Techniques

Modern Methods of Organic Synthesis South

Asia Edition

Fully updated and expanded to reflect recent advances, this Fourth Edition of the classic text provides students and professional chemists with an excellent introduction to the principles and general properties of organometallic compounds, as well as including practical information on reaction mechanisms and detailed descriptions of contemporary applications.

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Ideal for those studying biochemistry for the first time, this proven book balances scientific detail with readability and shows you how principles of biochemistry affect your everyday life. Designed throughout to help you succeed (and excel!), the book includes in-text questions that help you master key concepts, end-of-chapter problem sets grouped by problem type that help you prepare for exams, and state-of-the art visuals that help you understand key processes and concepts. In addition, visually dynamic Hot Topics cover the latest advances in the field, while Biochemical Connections demonstrate how biochemistry affects other fields, such as health and sports medicine. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This text offers a fresh, distinctive approach to the teaching of

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molecular biology that reflects the challenge of teaching a subject that is in many ways unrecognizable from the molecular biology of the 20th century - a discipline in which our understanding has advanced immeasurably, but about which many questions remain to be answered. With a focus on key principles, this text emphasizes the commonalities that exist between the three kingdoms of life, giving students an accurate depiction of our current understanding of the nature of molecular biology and the differences that underpin biological diversity.

With this transformational digital update, the classic organic chemistry text offers even more effective ways to prepare for class time, assignments, and exams.

Principles of Genome Function

Organic Chemistry

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The Organometallic Chemistry of the Transition Metals
Organic Chemistry Digital Update
A Miniscale Approach