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For two-semester general chemistry courses (science majors). McMurry/Fay/Robinson's Chemistry aims to help students understand the connections between topics in general chemistry and why they matter. The 7th Edition provides a concise and streamlined narrative that blends the quantitative and visual aspects of chemistry, demonstrates the connections between topics, and illustrates the application of chemistry to their lives and careers. New content offers a better bridge between organic and biochemistry and general chemistry content, and new and improved pedagogical features make the text a true teaching tool rather than just a reference book. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. With its updates to quickly changing content areas, a strengthened visual presentation and the addition of new co-author Paul Fischer, the new edition of this highly readable text supports the modern study of inorganic chemistry better than ever. Inorganic Chemistry, 5th Edition delivers the essentials of Inorganic Chemistry at just the right level for today's classroom – neither too high (for novice students) nor too low (for advanced students). Strong coverage of atomic theory and an emphasis on physical chemistry give students a firm understanding of the theoretical basis of inorganic chemistry, while a reorganised presentation of molecular orbital and group theory highlights key principles more clearly. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. This introductory text explains the fundamentals of the chemistry of the natural environment and the effects of mankind's activities on the earth's chemical systems. Retains an emphasis on describing how natural geochemical processes operate over a variety of scales in time and space, and how the effects of human perturbation can be measured. Topics range from familiar global issues such as atmospheric pollution and its effect on global warming and ozone destruction, to microbiological processes that cause pollution of drinking water deltas. Contains sections and information boxes that explain the basic chemistry underpinning the subject covered. Each chapter contains a list of further reading on the subject area. Updated case studies. No prior chemistry knowledge required. Suitable for introductory level courses. In the International Year of Chemistry, prominent scientists highlight the major advances in the fight against the largest problems faced by humanity from the point of view of chemistry, showing how their science is essential to ensuring our long-term survival. Following the UN Millennium Development Goals, the authors examine the ten most critical areas, including energy, climate, food, water and health. All of them are opinion leaders in their fields, or high-ranking decision makers in national and international institutions. Intended to provide an intellectual basis for the future development of chemistry, this book is aimed at a

wide readership including students, professionals, engineers, scientists, environmentalists and anyone interested in a more sustainable future. Give students a robust conceptual foundation while building critical problem-solving skills

Robinson/McMurry/Fay's Chemistry, known for a concise and united author voice, conceptual focus, extensive worked examples, and thoroughly constructed connections between organic, biological, and general chemistry, highlights the application of chemistry to students' lives and careers. Lead author Jill Robinson strengthens the student orientation by creating more engaging, active learning opportunities for students and faculty. With the 8th Edition, Robinson draws upon her exceptional teaching skills to provide new interactive experiences that help identify and address students' preconceptions. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. What does matter look like at the molecular and atomic level? Why are leaves green? Why do colored fabrics fade upon repeated exposure to sunlight? Why does a pencil leave a mark when dragged across a sheet of paper? All of these basic questions have molecular answers that teach and illustrate chemical principles. Nivaldo Tro introduces each concept with a thought experiment, then develops the chemical principles and concepts involved in a molecular understanding of the experiment. Once students have grasped the basic concepts, they are introduced to consumer applications and environmental problems related to the concepts. Mathematical aspects of chemistry are optional. The 'Red Book' is the definitive guide for scientists requiring internationally approved inorganic nomenclature in a legal or regulatory environment. You're Holding the Key to a Complete Distance Learning Introductory Chemistry Course for Non-Science Majors. Have you ever wondered what makes up everything in the world around you? Or what exactly is the difference between solids, liquids, and gases? Have you wanted to know what causes two substances to react or change? Chemistry: Investigate the Matter that Makes Up Your World introduces readers 12 through 15 to the fascinating world of protons, neutrons, and electrons. Learn how these molecules combine to form ordinary objects such as the chair you're sitting on, the water in your glass, even you! Through hands-on, investigative projects, readers delve into the world of chemical reactions and changing matter, learning how these principles are used in many areas of science, from biochemistry to nuclear science. Combining hands-on science inquiry with chemistry, mathematics, and biology, projects include building models of molecules and bonds, identifying acids and bases, investigating the effect of temperature on reaction rate, and observing how a chemical reaction from vinegar, water, and bleach can accelerate the rusting of steel. Chemistry offers entertaining illustrations and fascinating sidebars to illuminate the topic and engage readers further, plus integrates a digital learning component by providing links to primary sources, videos, and other relevant websites. This is a comprehensive textbook for upper level undergraduates which discusses the nature of heterogeneous systems in the natural environment. The links between and within the various environmental compartments - air, water, soil - are emphasized. The book describes the chemistry of natural systems, their

composition and the processes and reactions that operate within and between the various compartments. Without focusing specifically on pollution, it also discusses ways in which these systems respond to perturbations, either those that are natural or those that are caused by humans. Background material from subjects such as atmospheric science, limnology, and soil science is provided in order to establish a setting for a description of the relevant chemistry. Emphasis is on general principles that can be applied in a variety of circumstances. At the same time, these principles are illustrated with examples taken from around the world. Because of issues of the environment related to every society, care has been taken to relate the subject material to situations in urban and rural areas in both highly industrialized and low-income countries. Chemistry in the World helps students become familiar with the ways in which chemistry is relevant to society and everyday life on personal, local, and global levels. The book presents chemical concepts in the context of their social applications and focuses on those most relevant to our common daily experiences and global challenges. In doing so, it gives students an appreciation for the applicability, visibility, and universality of chemistry, and an understanding of the reciprocal relationship between the science of chemistry and the organism of society. Chemistry in the World addresses aspects of scientific thinking and risk-benefit analysis to introduce students to ways of thinking that are useful and applicable both inside and outside the scientific world. The book features up-to-date national and global government policies and is organized into four main units: "All Around Us and Inside Us," "Community Chemistry," "Personal Chemistry," and "Global Chemistry." Specific topics include the composition of the atmosphere, carbon-based life forms, chemistry of water, acids and bases, pharmaceuticals and poisons, and nuclear chemistry. The third edition includes relevant and updated policies, FDA regulations, dietary recommendations, and global climate treaties. Chemistry in the World is an excellent comprehensive introduction to the subject, but more importantly, the book teaches students that chemistry is more than the stuff of science; it is the stuff of life. A new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. Introductory chemistry and physics are generally taught at the university level as isolated subjects, divorced from any compelling context. Moreover, the "formalism first" teaching approach presents students with disembodied knowledge, abstract and learned by rote. By contrast, this textbook presents a new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. It provides the rigorous development of the principles of chemistry but places these core concepts in a global context to engage developments in technology, energy production and distribution, the irreversible nature of climate change, and national security. Each chapter opens with a "Framework" section that establishes the topic's connection to emerging challenges. Next, the "Core" section addresses concepts including the first and second law of thermodynamics, entropy, Gibbs free energy, equilibria, acid-base reactions, electrochemistry, quantum mechanics, molecular bonding, kinetics, and nuclear. Finally, the "Case Studies" section explicitly links the scientific principles to an array of global issues. These case studies are designed to build quantitative reasoning skills, supply the technology background, and illustrate the critical global need for the infusion of technology into energy generation. The text's rigorous development of both context and scientific principles equips students for advanced classes as well as future involvement in scientific and societal arenas.

University Chemistry was written for a widely adopted course created and taught by the author at Harvard. Prepared by the IUPAC Physical Chemistry Division this definitive manual, now in its third edition, is designed to improve the exchange of scientific information among the readers in different disciplines and across different nations. This book has been systematically brought up to date and new sections added to reflect the increasing volume of scientific literature and terminology and expressions being used. The Third Edition reflects the experience of the contributors with the previous editions and the comments and feedback have been integrated into this essential resource. This edition has been compiled in machine-readable form and will be available online. An advanced exploration of water-rock interactions Based on the author's fifteen years of teaching and tried-and-tested experiences in the classroom, here is a comprehensive exploration of water-rock interactions. Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale covers aspects ranging from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W-R interactions such as nanoparticles, geomicrobiology, and climate change. Providing basic conceptual understanding along with more complex subject matter, Professor Patricia Maurice encourages students to look beyond the text to ongoing research in the field. Designed to engage the learner, the book features: Numerous case studies to contextualize concepts Practice and thought questions at the end of each chapter Broad coverage from basic theory to cutting-edge topics such as nanotechnology Both basic and applied science This text goes beyond W-R interactions to touch on a broad range of environmental disciplines. While written for advanced undergraduate and graduate students primarily in geochemistry and soil chemistry, Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale will serve the needs of such diverse fields as environmental engineering, hydrogeology, physics, biology, and environmental chemistry. Here is the most comprehensive and up-to-date treatment of one of the hottest areas of chemical research. The treatment of fundamental kinetics and photochemistry will be highly useful to chemistry students and their instructors at the graduate level, as well as postdoctoral fellows entering this new, exciting, and well-funded field with a Ph.D. in a related discipline (e.g., analytical, organic, or physical chemistry, chemical physics, etc.). Chemistry of the Upper and Lower Atmosphere provides postgraduate researchers and teachers with a uniquely detailed, comprehensive, and authoritative resource. The text bridges the "gap" between the fundamental chemistry of the earth's atmosphere and "real world" examples of its application to the development of sound scientific risk assessments and associated risk management control strategies for both tropospheric and stratospheric pollutants. Serves as a graduate textbook and "must have" reference for all atmospheric scientists Provides more than 5000 references to the literature through the end of 1998 Presents tables of new actinic flux data for the troposphere and stratosphere (0-40km) Summarizes kinetic and photochemical data for the troposphere and stratosphere Features problems at the end of most chapters to enhance the book's use in teaching Includes applications of the OZIPR box model with comprehensive chemistry for student use The IUPAC system of polymer nomenclature has aided the generation of unambiguous names that reflect the historical development of chemistry. However, the explosion in the circulation of information and the globalization of human activities mean that it is now necessary to have a common language for use in legal situations, patents, export-import regulations, and environmental health and safety information. Rather than recommending a

'unique name' for each structure, rules have been developed for assigning 'preferred IUPAC names', while continuing to allow alternatives in order to preserve the diversity and adaptability of nomenclature. Compendium of Polymer Terminology and Nomenclature is the only publication to collect the most important work on this subject into a single volume. It serves as a handy compendium for scientists and removes the need for time consuming literature searches. One of a series issued by the International Union of Pure and Applied Chemistry (IUPAC), it covers the terminology used in many and varied aspects of polymer science as well as the nomenclature of several different types of polymer including regular and irregular single-strand organic polymers, copolymers and regular double-strand (ladder and spiro) organic polymers. Biogeochemistry: An Analysis of Global Change, Fourth Edition, considers how the basic chemical conditions of the Earth, from atmosphere to soil to seawater, have been, and are being, affected by the existence of life. Human activities in particular, from the rapid consumption of resources to the destruction of the rainforests and the expansion of smog-covered cities, are leading to rapid changes in the basic chemistry of the Earth. The new edition features expanded coverage of topics, including the cryosphere, the global hydrogen cycle, biomineralization and the movement of elements across landscapes and continents by organisms and through global trade. The book will help students and researchers extrapolate small-scale examples to a global level. With cross-referencing of chapters, figures and tables, and an interdisciplinary coverage of the topic, this updated edition provides an excellent framework for examining global change and environmental chemistry. Includes an extensive review and up-to-date synthesis of the current literature on the Earth's biogeochemistry Synthesizes the global cycles of carbon, nitrogen, phosphorous and sulfur, and suggests the best current budgets for atmospheric gases such as ammonia, nitrous oxide, dimethyl sulfide, and carbonyl sulfide Features updated literature references and expanded coverage of topics, including the cryosphere, the global hydrogen cycle, biomineralization and the movement of elements across landscapes and continents by organisms and through global trade In a giant step toward managing today's pollution problems more effectively, this report lays out a framework to coordinate an interdisciplinary and international investigation of the chemical composition and cycles of the troposphere. The approach includes geographical surveys, field measurements, the development of appropriate models, and improved instrumentation. This book is the long awaited completely revised and extended edition of Gunther Ohloff's standard work "Scent and Fragrances: The Fascination of Odors and Their Chemical Perspectives". The prominent chemists Gunther Ohloff, Wilhelm Pickenhagen, and Philip Kraft convey the scientist, the perfumer, as well as the interested layman with a vivid and up-to-date picture of the state of the art of the chemistry of odorants and the research in odor perception. The book details on the molecular basis of olfaction, olfactory characterization of perfumery materials, structure-odor relationships, the chemical synthesis of odorants, and the chemistry of essential oils and odorants from the animal kingdom, backed up by ca. 400 perfumery examples and historical aspects. It will serve as a thorough introductory text for all those interested in the molecular world of odors. This book is written for everyone who wants to know more about the molecular basis of odor, and the relationships between chemical structures and olfactory properties. The great structural diversity of odorants, their synthesis, natural occurrence and their structure?odor correlation demonstrate what a fascinating science Fragrance Chemistry indeed is. The trusted,

innovative, calibrated leader Unrivaled problems, notable scientific accuracy and currency, and remarkable clarity have made Chemistry: The Central Science the leading general chemistry text for more than a decade. Trusted, innovative, and calibrated, the text increases conceptual understanding and student success in general chemistry by building on the expertise of the dynamic author team of leading researchers and award-winning professors. The new Thirteenth Edition builds on the Twelfth Edition's major revision, in which every word and piece of art was scrutinized by all the authors to increase its effectiveness. Placing a greater emphasis on research, this edition is more tightly integrated with MasteringChemistry, the leading online homework, tutorial, and assessment program—resulting in an unparalleled teaching and learning package that personalizes learning and coaches students toward understanding and mastery of tough chemistry topics. This program presents a better teaching and learning experience—for you and your students. It provides:

- Enhanced learning from a dynamic author team of leading researchers and award-winning professors: Each member of this well-respected author team brings their expertise in a wide range of areas to the pages of this popular text. All authors have been active researchers and have taught general chemistry for many years.
- Improved conceptual understanding through stepped up, relevant pedagogy: Students get numerous opportunities to test their knowledge through Give It Some Thought (GIST) exercises, Go Figure questions, and A Closer Look essays, now integrated with clicker questions and in MasteringChemistry.
- Invaluable aids that ensure problem-solving success: By using a consistent process, a unique Analyze/Plan/Solve/Check format, dual-column problem-solving approach in certain areas, a new practice exercise following each worked example, and the Strategies in Chemistry feature, students are placed on the right path from the very start to excel at problem solving and comprehension.
- Clarity through visualization from a variety of perspectives, including macroscopic, microscopic, and symbolic: Included are Visualizing Concepts exercises, with models, graphs, and other visual materials; sample exercises with molecular illustrations; and conceptual questions in the end-of-chapter questions.

Superior support beyond the classroom with MasteringChemistry: Students benefit from personalized, interactive learning through MasteringChemistry's self-paced tutorials that guide them through the text's most challenging topics; provide immediate, specific feedback; and keep students engaged and on track. Note: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

Pollution has been a developing problem for quite some time in the modern world, and it is no secret how these chemicals negatively affect the environment. With these contaminants penetrating the earth's water supply, affecting weather patterns, and threatening human health, it is critical to study the interaction between commercially produced chemicals and the overall ecosystem. Understanding the nature of these pollutants, the extent in which they are harmful to humans, and quantifying the total risks are a necessity in protecting the future of our world. The Handbook of Research on Emerging Developments and Environmental Impacts of Ecological Chemistry is an essential reference source that discusses the process of chemical contributions and their behavior within the environment. Featuring research on topics such as organic pollution, biochemical technology, and food quality assurance, this book is ideally designed for environmental professionals, researchers, scientists, graduate students, academicians, and policymakers

seeking coverage on the main concerns, approaches, and solutions of ecological chemistry in the environment. An extensive collection of papers on analytical nomenclature in pure and applied chemistry that have been accepted by professional bodies, first published in 1977 and updated in 1987. The third edition incorporates new instrumentation and automated processes, the widening of questions from merely what a substance is to what its structure is and how it changes in composition and structure in space and time, and the much wider range of applications in research, development, production, and service. The pages are not numbered consecutively. Annotation copyrighted by Book News, Inc., Portland, OR

A guide to putting cognitive diversity to work Ever wonder what it is that makes two people click or clash? Or why some groups excel while others fumble? Or how you, as a leader, can make or break team potential? Business Chemistry holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the Business Chemistry framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? Business Chemistry will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of diversity on your teams and in your organizations, improving collaboration to achieve the group's collective potential. Business Chemistry offers all of this--you don't have to leave it up to chance, and you shouldn't. Let this book guide you in creating great chemistry! This manual contains the worked solutions to the end-of-chapter problems presented in the parent undergraduate textbook, Environmental Chemistry by van Loon and Duffy. Problem solving is an indispensable aspect of learning, giving students a feel for the quantities involved and how to manipulate them. These worked problems supplement the main book. This self-contained text offers all the information necessary for readers to understand the topics surrounding environmental science and the chemistry underlying various issues. Environmental Chemistry in Society, Third Edition, provides a foundation in science, chemistry, and toxicology, including the laws of thermodynamics, chemical bonding, and environmental toxins. This text allows readers to delve into environmental topics such as energy in society, air quality, global atmospheric concerns, water quality, and solid waste management. The arrangement of the book provides instructors with flexibility in how they present the material, with crucial topics covered first. This Third Edition has been updated throughout. The book provides a statement of learning outcomes at the beginning of every chapter, group work questions to encourage learning and environmental awareness, and discussion questions to develop critical thinking skills. The Third Edition includes more illustrations than previous editions, and the energy chapter of the Second Edition has been divided into two chapters in this edition to make the topic more

manageable. An inclusive international approach highlights the contributions of scientists from around the world. Chemical structures are presented with inline figures. FEATURES Offers a user-friendly approach to appeal to students with little or no science background Presents a qualitative approach to the chemistry behind many current environmental issues Updates environmental data Includes a glossary of important terms The environmental data has been updated to include the effects of COVID-19. A test bank is available to instructors upon request. Detailing the latest rules and international practice, this new volume can be considered a guide to the essential organic chemical nomenclature, commonly described as the "Blue Book." Examining the chemical and photochemical process in the atmosphere, this text covers topics such as the biogeochemical cycles; the processes affecting the oxygen, hydrogen, nitrogen, halogen, and carbon species; and the impact of chemical compounds on greenhouse warming. This text covers topics that deal with the chemistry of the atmosphere, the hydrosphere, and the terrestrial environment. It emphasises the chemical principles which apply to environmental studies, and includes a broad range of examples and exercises. Atmospheric Chemistry and Global Change presents an integrated examination of chemical processes in the atmosphere, focusing on global-scale problems and their role in the evolution of the Earth system. Taking a largely interdisciplinary approach, it features the collective efforts of a group of scientists at the National Center for Atmospheric Research (NCAR), as well as other experts from several universities and national laboratories. Topics discussed include the fundamental physical, chemical, and biological processes that affect the atmospheric composition; the chemical mechanisms that affect the production and the fate of important chemical compounds; and the techniques used to investigate the chemical processes in the atmosphere. The book concludes with discussions on global problems related to the atmosphere (stratospheric ozone depletion, changes in greenhouse gases, and global chemical pollution), the relationship between the atmosphere and the global climate, and the long-term chemical evolution of the atmosphere. Each chapter features a brief essay by a leader in the field and includes a large number of current references. Ideal for graduate courses in atmospheric chemistry and atmospheric science, Atmospheric Chemistry and Global Change also serves as an authoritative and practical reference for scientists studying the Earth's atmosphere. Support materials for the book are available via the website <http://acd.ucar.edu/textbook> For courses in introductory, preparatory, and basic chemistry. Engages First Time Chemistry Students Basic Chemistry introduces students to the essential scientific and mathematical concepts of general chemistry. With accessible language and a moderate pace, the text is easy-to-follow for first-time chemistry students, as well as those hoping to renew their studies of the subject. In the Fifth Edition, Bill and Karen Timberlake carefully develop core ideas while relating them to the possibility of future careers. The book guides students through basic chemistry problem solving with engaging visuals and a focus on developing the math skills necessary to be successful in the course. End of chapter questions strategically promote integration of cumulative ideas, allowing students to develop a strong foundation for learning chemistry and encouraging them to continue their studies in the field. The main objective in writing this text is to make the study of chemistry an engaging and a positive experience for students by relating the structure and behavior of matter to real life. This new edition introduces more problem-solving strategies, more problem-solving guides, new features in the Sample Problems; Try It First before the Solution and Connect in the

Analyze the Problem step of the solution, a new Engage feature, new conceptual and challenge problems, and new sets of combined problems. MasteringChemistry not included. Students, if MasteringChemistry is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MasteringChemistry should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. MasteringChemistry is an online homework, tutorial, and assessment program designed to work with this text to personalize learning and improve results. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts. Tackling environmental issues such as global warming, ozone depletion, acid rain, water pollution, and soil contamination requires an understanding of the underlying science and chemistry of these processes in real-world systems and situations.

Chemistry for Environmental and Earth Sciences provides a student-friendly introduction to the bas Aquatic systems play a salient role in the complex processes of energy and matter exchange between the geosphere and the atmosphere. For example, reactions taking place in cloud water droplets can substantially alter the atmospheric budget and chemistry of trace gases; pollution induced weathering reactions at water/soil interfaces can affect the availability of nutrients and increase the concentration of potentially toxic metals in groundwaters. Moreover, the inextricable links between the water cycle, the geosphere and the atmosphere ensure that apparently localized environmental problems have increasingly impacts in other parts of the world. To identify local-to-global scale variables associated with environmental changes, a focus must be placed on the recognition of processes, rather than a continued reliance on monitoring state variables. However, in heterogeneous aquatic systems, small scale aspects of a process under observation may not be summed directly to obtain regional estimates because of process nonlinearities with change in scale. To understand this, the integrated use of measurements across a range of scales is required. From man's first exploration of natural materials and their transformations to today's materials science, chemistry has always been the central discipline that underpins both the physical and biological sciences, as well as technology. In this Very Short Introduction, William H Brock traces the unique appeal of this fundamental science throughout history. Covering alchemy, early-modern chemistry, pneumatic chemistry and Lavoisier's re-interpretation of chemical change, the rise of organic and physical chemistry, and the transforming power of synthesis, Brock explores the extraordinary and often puzzling transformations of natural and artificial materials, as well as the men and women who experimented, speculated, and explained matter and change.

ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket-sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable. For one-semester courses in Preparatory Chemistry Make chemistry relevant to students Now in its 5th Edition, Introductory Chemistry continues to foster deep engagement in the course by showing how chemistry manifests in students' daily lives. Author Nivaldo Tro draws upon his classroom experience as an award-winning instructor to extend chemistry from the laboratory to the student's world, capturing student attention with relevant applications and a captivating writing style. This program provides a better teaching and learning experience—for you and your

students. It will help you to: Enable deep conceptual understanding: Several new Conceptual Checkpoints and Self- Assessment Quizzes help students better grasp key concepts. Foster development of problem-solving skills: A step-by-step framework encourages students to think logically rather than simply memorise formulas. Additional worked examples, enhanced with audio and video, reinforce challenging problems. Encourage interest in chemistry: The inclusion of concrete examples of key ideas throughout the program keeps students engaged in the material. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

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