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A concise introduction to the chemistry and design principles behind important metal-organic frameworks and related porous materials Reticular chemistry has been applied to synthesize new classes of porous materials that are successfully used for myriad applications in areas such as gas separation, catalysis, energy, and electronics. Introduction to Reticular Chemistry gives an unique overview of the principles of the chemistry behind metal-organic frameworks (MOFs), covalent organic frameworks (COFs), and zeolitic imidazolate frameworks (ZIFs). Written by one of the pioneers in the field, this book covers all important aspects of reticular chemistry, including design and synthesis, properties and characterization, as well as current and future applications Designed to be an accessible resource, the book is written in an easy-to-understand style. It includes an extensive bibliography, and offers figures and videos of crystal structures that are available as an electronic supplement. Introduction to Reticular Chemistry: -Describes the underlying principles and design elements for the synthesis of important metal-organic frameworks (MOFs) and related materials -Discusses both real-life and future applications in various fields, such as clean energy and water adsorption -Offers all graphic material on a companion website -Provides first-hand knowledge by Omar Yaghi, one of the pioneers in the field, and his team. Aimed at graduate students in chemistry, structural chemists, inorganic chemists, organic chemists, catalytic chemists, and others, Introduction to Reticular Chemistry is a groundbreaking book that explores the chemistry principles and applications of MOFs, COFs, and ZIFs. A needed resource for pharmaceutical scientists and cosmetic chemists, Essential Chemistry for Formulators of Semisolid and Liquid Dosages provides insight into the basic chemistry of mixing different phases and test methods for the stability study of nonsolid formulations. The book covers foundational surface/colloid chemistry, which forms the necessary background for making emulsions, suspensions, solutions, and nano drug delivery systems, and the chemistry of mixing, which is critical for further formulation of drug delivery systems into semisolid (gels, creams, lotions, and ointments) or liquid final dosages. Expanding on these foundational principles, this useful guide explores stability testing methods, such as particle size, rheological/viscosity, microscopy, and chemical, and closes with a valuable discussion of regulatory issues. Essential Chemistry for Formulators of Semisolid and Liquid Dosages offers scientists and students the foundation and practical guidance to make and analyze semisolid and liquid formulations. Unique coverage of the underlying chemistry that makes possible stable dosages Quality content written by experienced experts from the drug development industry Valuable information for academic and industrial scientists developing topical and liquid dosage formulations for pharmaceutical as well as skin care and cosmetic products Modern Inorganic Synthetic Chemistry, Second Edition captures, in five distinct sections, the latest advancements in inorganic synthetic chemistry, providing materials chemists, chemical engineers, and materials scientists with a valuable reference source to help them advance their research efforts and achieve breakthroughs. Section one includes six chapters centering on synthetic chemistry under specific conditions, such as high-temperature, low-temperature and cryogenic, hydrothermal and solvothermal, high-pressure, photochemical and fusion conditions. Section two focuses on the synthesis and related chemistry problems of highly distinct categories of inorganic compounds, including superheavy elements, coordination compounds and coordination

polymers, cluster compounds, organometallic compounds, inorganic polymers, and nonstoichiometric compounds. Section three elaborates on the synthetic chemistry of five important classes of inorganic functional materials, namely, ordered porous materials, carbon materials, advanced ceramic materials, host-guest materials, and hierarchically structured materials. Section four consists of four chapters where the synthesis of functional inorganic aggregates is discussed, giving special attention to the growth of single crystals, assembly of nanomaterials, and preparation of amorphous materials and membranes. The new edition's biggest highlight is Section five where the frontier in inorganic synthetic chemistry is reviewed by focusing on biomimetic synthesis and rationally designed synthesis. Focuses on the chemistry of inorganic synthesis, assembly, and organization of wide-ranging inorganic systems Covers all major methodologies of inorganic synthesis Provides state-of-the-art synthetic methods Includes real examples in the organization of complex inorganic functional materials Contains more than 4000 references that are all highly reflective of the latest advancement in inorganic synthetic chemistry Presents a comprehensive coverage of the key issues involved in modern inorganic synthetic chemistry as written by experts in the field From biofuels, green chemistry, and nanotechnology, this proven laboratory textbook provides the up-to-date coverage students need in their coursework and future careers. The book's experiments, all designed to utilize microscale glassware and equipment, cover traditional organic reactions and syntheses, the isolation of natural products, and molecular modeling and include project-based experiments and experiments that have a biological or health science focus. Updated throughout with new and revised experiments, new and revised essays, and revised and expanded techniques, the Fifth Edition is organized based on essays and topics of current interest. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. (Key topics: pendulum, Galileo, motion, speed, acceleration, light, Brahe, Kepler, Copernicus, Roemer, motion in heavens, velocity, mass, force, gravity, stars, three laws of motion, Newton, momentum, impulse, simple machines, kinetic and potential energy, mechanical and heat energy) IPC consists of twelve chapters of text and twelve companion student activity books. This course introduces students to the people, places and principles of physics and chemistry. It is written by internationally respected scientist/author, John Hudson Tiner, who applies the vignette approach which effectively draws readers into the text and holds attention. The author and editors have deliberately avoided complex mathematical equations in order to entice students into high school level science. Focus is on the people who contributed to development of the Periodic Table of the Elements. Students learn to read and apply the Table while gaining insight into basic chemistry and physics. This is one of our most popular courses among high school students, especially those who have a history of under-performance in science courses due to poor mathematical and reading comprehension skills. The course is designed for two high school transcript credits. Teachers may require students to complete all twelve chapters for two transcript credits or may select only six chapters to be completed for one transcript credit for Physical Science, Physics, or Chemistry. Compliance with state and local academic essential elements should be considered when specific chapters are selected by teachers. As applicable to local policies, transcript credit may be assigned as follows when students complete all 12 chapters: Physical Science for one credit and Chemistry for one credit, or Integrated Physics and Chemistry for two credits. (May require supplemental local classes/labs.) (Key topics: Metric methods and systems, origin of the calendar, time, measurement standards of Galileo, Fahrenheit and Celsius, speed of light, Discoveries by: Olaus Roemer, Benjamin Franklin and Andre Ampere; place value, exponents, application of science, base units, surface areas, clocks, measurement, scales, states of matter, Fahrenheit and Kelvin scales, carbon dioxide, Sun, water and wind currents, logic and experiments) Designed as an eighth grade course, these saddle-stitch texts cover Earth and life sciences, plus studies on the Periodic Table of the Elements and the solar system. Each scientific concept is enhanced by adventure vignettes in which young people help solve community crimes and mysteries by applying the scientific method and positive character traits, such as integrity, honesty, commitment, diligence, and kindness. Students learn how virtues and personal responsibility help communities reduce crime and upgrade community standards. The narrative, high interest approach of this series engages students so they progress through comprehensive scientific material with clarity and engagement. Students are exposed to scientific evidence which explores traditional and contemporary theories about the origin of life and the formation of our planet and universe. Texts allow the student to evaluate these theories from a scientific perspective. Each text has a companion Activity Book designed to walk the student through the text in chronological order. Selected questions in each Activity Book also serve as preparation for state academic assessment exams. Activity Books are applicable in regular classrooms or in individualized learning programs in which students progress through the course with interest and understanding. Molybdenum is an element with an extremely rich and interesting chemistry having very versatile applications in various fields of human activity. It is used extensively in metallurgical applications. Because of their anti-wear properties, molybdenum compounds find wide applications as lubricants - particularly in extreme or hostile environmental situations. Many molybdates and heteropolymolybdates are white and therefore used as pigments. In addition, they are non-toxic and act as efficient corrosion inhibitors and smoke suppressants. Hydroprocessing of petroleum is one of the largest industries employing heterogeneous catalysts. Molybdenum

catalysts have shown great promise in the liquefaction of coal and this may develop into one of its most important catalytic uses. The use of molybdenum compounds in homogeneous catalysis is also significant. Three important classes of molybdenum compounds in the solid state are reviewed, viz., oxides, sulphides and halides. The role of molybdenum in inorganic catalysis and enzymes receives prominent mention because of their impact on the progress of science and technology. Further biochemical and enzymic factors are discussed in separate chapters and their reaction to agriculture and animal husbandry. A new classification of covalent compounds which abandons the traditional oxidation state concept allows a powerful approach to the organisation of the complex and rich chemistry of molybdenum. Dramatic colour diagrams of abundances of molybdenum compounds provide broad insights into the important features and trends in the chemistry of molybdenum including reactivity and mechanism. The book is intended for use mainly as a research monograph by the many workers who may encounter molybdenum chemistry or who are looking for its application and potential uses in different technological fields. However, it will also serve as an advanced text for university lecturers and postgraduate students interested in inorganic, physical and industrial chemistry, chemical technology or biochemistry and biotechnology. 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 Since the discovery of the first examples of 2-oxoglutarate-dependent oxygenase-catalysed reactions in the 1960s, a remarkably broad diversity of alternate reactions and substrates has been revealed, and extensive advances have been achieved in our understanding of the structures and catalytic mechanisms. These enzymes are important agrochemical targets and are being pursued as therapeutic targets for a wide range of diseases including cancer and anemia. This book provides a central source of information that summarizes the key features of the essential group of 2-oxoglutarate-dependent dioxygenases and related enzymes. Given the numerous recent advances and biomedical interest in the field, this book aims to unite the latest research for those already working in the field as well as to provide an introduction for those newly approaching the topic, and for those interested in translating the basic science into medicinal and agricultural benefits. The book begins with four broad chapters that highlight critical aspects, including an overview of possible catalytic reactions, structures and mechanisms. The following seventeen chapters focus on carefully selected topics, each written by leading experts in the area. Readers will find explanations of rapidly evolving research, from the chemistry of isopenicillin N synthase to the oxidation mechanism of 5-methylcytosine in DNA by ten-eleven-translocase oxygenases. Steve and Susan Zumdahl's texts focus on helping students build critical thinking skills through the process of becoming independent problem-solvers. They help students learn to think like a chemists so they can apply the problem solving process to all aspects of their lives. In CHEMISTRY: AN ATOMS FIRST APPROACH, the Zumdahls use a meaningful approach that begins with the atom and proceeds through the concept of molecules, structure, and bonding, to more complex materials and their properties. Because this approach differs from what most students have experienced in high school courses, it encourages them to focus on conceptual learning early in the course, rather than relying on memorization and a plug and chug method of problem solving that even the best students can fall back on when confronted with familiar material. The atoms first organization provides an opportunity for students to use the tools of critical thinkers: to ask questions, to apply rules and models and to evaluate outcomes. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book is a chemical information book aimed specifically at practicing chemists. Useful for students on undergraduate and graduate courses, it could also be a guide to new information specialists who are facing the challenging diversity of chemical literature. 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 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 Soil and Environmental Chemistry, Second Edition, presents key aspects of soil chemistry in environmental science, including dose responses, risk characterization, and practical applications of calculations using spreadsheets. The book offers a holistic, practical approach to the application of environmental chemistry to soil science and is designed to equip the reader with the chemistry knowledge and problem-solving skills necessary to validate and interpret data. This updated edition features significantly revised chapters, averaging almost a 50% revision overall, including some reordering of chapters. All new problem sets and solutions are found at the end of each chapter, and linked to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions. There is also additional pedagogy, including key term and real-world scenarios. This book is a must-have reference for researchers and practitioners in environmental and soil sciences, as well as intermediate and advanced students in soil science and/or environmental chemistry. Includes additional pedagogy, such as key terms and real-world scenarios Supplemented by over 100 spreadsheets to migrate readers from calculator-based to spreadsheet-based problem-solving that are directly linked from the text Includes example problems and solutions to enhance understanding Significantly revised chapters link to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions Bishop's text shows students how to break the material of preparatory chemistry down and master it. The system of objectives tells the students exactly what they must learn in each chapter and where to find it. Nutraceuticals is a broad umbrella term used to describe any product derived from food sources with extra health benefits in addition to the basic nutritional value found in foods. This book is a comprehensive look at two themes in the area: technical and biological considerations. Technical considerations include an in-depth look at the process of bioactive identification and extraction and factors controlling bioactive concentrations in food. It also includes details of how these products are regulated and the steps necessary to utilize these products in human populations. Biological considerations include looking at how these products can be used in the prevention and treatment of chronic diseases, and a discussion on the process of formulations and how these influence bioavailability. This will be the first book to comprehensively examine the entire process of nutraceutical development from food to supplement creation and all the important considerations in between. This serves as an excellent and up-to-date reference for food scientists, food chemists, researchers in nutraceuticals and human nutrition. Not just Atoms-First, Atoms-Focused. An atoms-first text and media program that goes beyond a reorganization of topics, emphasizes the particulate nature of matter throughout the book, art, and problems, and helps students develop their molecular visualization skills as they learn to become expert problem-solvers. Filling the need for a ready reference that reflects the vast developments in this field, this book presents everything from fundamentals, applications, various reaction types, and technical applications. Edited by rising stars in the scientific community, the text focuses solely on visible light photocatalysis in the context of organic chemistry. This primarily entails photoinduced electron transfer and energy transfer chemistry sensitized by polypyridyl complexes, yet also includes the use of organic dyes and heterogeneous catalysts. A valuable resource to the synthetic organic community, polymer and medicinal chemists, as well as industry professionals. Medicinal chemistry is a complex topic. Written in an easy to follow and conversational style, Basic Concepts in Medicinal Chemistry focuses on the fundamental concepts that govern the discipline of medicinal chemistry as well as how and why these concepts are essential to therapeutic decisions. The book emphasizes functional group analysis and the basics of drug structure evaluation. In a systematic fashion, learn how to identify and evaluate the functional groups that comprise the structure of a drug molecule and their influences on solubility, absorption, acid/base character, binding interactions, and stereochemical orientation. Relevant Phase I and Phase II metabolic transformations are also discussed for each functional group. Key features include:

- Discussions on the roles and characteristics of organic functional groups, including the identification of acidic and basic functional groups.
- How to solve problems involving pH, pKa, and ionization; salts and solubility; drug binding interactions; stereochemistry; and drug metabolism.
- Numerous examples and expanded discussions for complex concepts.
- Therapeutic examples that link the importance of medicinal chemistry to pharmacy and healthcare practice.
- An overview of structure activity relationships (SARs) and concepts that govern drug design.
- Review questions and practice problems at the end of each chapter that allow readers to test their understanding, with the answers provided in an appendix.

Whether you are just starting your education toward a career in a healthcare field or need to brush up on your organic chemistry concepts, this book is here to help you navigate medicinal chemistry. About the Authors Marc W. Harrold, BS, Pharm, PhD, is Professor of Medicinal Chemistry at the Mylan School of Pharmacy, Duquesne University, Pittsburgh, PA. Professor Harrold is the 2011 winner of the Omicron Delta Kappa "Teacher of the Year" award at Duquesne University. He is also the two-time winner of the "TOPS" (Teacher of the Pharmacy School) award at the Mylan School of Pharmacy. Robin M. Zavod, PhD, is Associate Professor for Pharmaceutical Sciences

at the Chicago College of Pharmacy, Midwestern University, Downers Grove, IL, where she was awarded the 2012 Outstanding Faculty of the Year award. Professor Zavod also serves on the adjunct faculty for Elmhurst College and the Illinois Institute of Technology. She currently serves as Editor-in-Chief of the journal *Currents in Pharmacy Teaching and Learning*. This book overviews the underlying chemistry behind the most common and cutting-edge inorganic materials in current use, or approaching use, in vivo. From the initial observation of proton magnetic resonance in water and in paraffin, the discipline of nuclear magnetic resonance has seen unparalleled growth as an analytical method. Modern NMR spectroscopy is a highly developed, yet still evolving, subject which finds application in chemistry, biology, medicine, materials science and geology. In this book, emphasis is on the more recently developed methods of solution-state NMR applicable to chemical research, which are chosen for their wide applicability and robustness. These have, in many cases, already become established techniques in NMR laboratories, in both academic and industrial establishments. A considerable amount of information and guidance is given on the implementation and execution of the techniques described in this book. **Advanced Mass Spectrometry: Applications in Organic and Analytical Chemistry** discusses the concepts that are essential in the effective utilization of mass spectrometry. The title particularly covers the fundamentals of the modern techniques, along with the technological concerns of mass spectrometry. The opening chapter of the selection introduces mass spectrometry, while the subsequent chapters cover the fundamentals and hardware. The next chapters talk about the analytical chemistry consequences and the ion-genetic relationships. The remaining chapter covers the application of mass spectrometry, which includes structural, mechanistic, chemical, and biochemical applications. The book will be of great use to organic and analytical chemists. Chemists from other branch of chemistry, along with practitioners of related fields such as chemical engineering will also benefit from the text. Our NEET Foundation series is sharply focused for the NEET aspirants. Most of the students make a career choice in the middle school and, therefore, choose their stream informally in secondary and formally in senior secondary schooling, accordingly. If you have decided to make a career in the medical profession, you need not look any further! Adopt this series for Class 9 and 10 today. Biorefineries are becoming increasingly important in providing sustainable routes for chemical industry processes. The establishment of bio-economic models, based on biorefineries for the creation of innovative products with high added value, such as biochemicals and bioplastics, allows the development of “green chemistry” methods in synergy with traditional chemistry. This reduces the heavy dependence on imports and assists the development of economically and environmentally sustainable production processes, that accommodate the huge investments, research and innovation efforts. This book explores the most effective or promising catalytic processes for the conversion of biobased components into high added value products, as platform chemicals and intermediates. With a focus on heterogeneous catalysis, this book is ideal for researchers working in catalysis and in green chemistry. Multi-component crystalline systems or co-crystals have received tremendous attention from academia and industry alike in the past decade. Applications of co-crystals are varied and are likely to positively impact a wide range of industries dealing with molecular solids. Co-crystallization has been used to improve the properties and performance of materials from pharmaceuticals to energetic materials, as well as for separation of compounds. This book combines co-crystal applications of commercial and practical interest from diverse fields in to a single volume. It also examines effective structural design of co-crystals, and provides insights into practical synthesis and characterization techniques. Providing a useful resource for postgraduate students new to applied co-crystal research and crystal engineering, it will also be of interest to established researchers in academia or industry. More people get into medical school with a Kaplan MCAT course than all major courses combined. Now the same results are available with Kaplan’s MCAT General Chemistry Review. This book features thorough subject review, more questions than any competitor, and the highest-yield questions available. The commentary and instruction come directly from Kaplan MCAT experts and include targeted focus on the most-tested concepts plus more questions than any other guide. **Kaplan’s MCAT General Chemistry Review offers: UNPARALLELED MCAT KNOWLEDGE:** The Kaplan MCAT team has spent years studying every document related to the MCAT available. In conjunction with our expert psychometricians, the Kaplan team is able to ensure the accuracy and realism of our practice materials. **THOROUGH SUBJECT REVIEW:** Written by top-rated, award-winning Kaplan instructors. All material has been vetted by editors with advanced science degrees and by a medical doctor. **EXPANDED CONTENT THROUGHOUT:** While the MCAT has continued to develop, this book has been updated continuously to match the AAMC’s guidelines precisely—no more worrying if your prep is comprehensive! **MORE PRACTICE THAN THE COMPETITION:** With questions throughout the book and access to one practice test, Kaplan’s MCAT General Chemistry Review has more practice than any other MCAT General Chemistry book on the market. **ONLINE COMPANION:** Access to online resources to augment content studying, including one practice test. The MCAT is a computer-based test, so practicing in the same format as Test Day is key. **TOP-QUALITY IMAGES:** With full-color, 3-D illustrations, charts, graphs and diagrams from the pages of Scientific American, Kaplan’s MCAT General Chemistry Review turns even the most intangible, complex science into easy-to-visualize concepts. **KAPLAN’S MCAT REPUTATION:** Kaplan gets more people into medical school than all other courses, combined.

UTILITY: Can be used alone or with other companion books in Kaplan's MCAT Review series. Noncovalent interactions often provide the spine of biomolecular and material structures, and can therefore play a key role in biological and catalytic processes. Selectivity in chemical reactions, particularly in catalytic processes, is often an orchestral action of various noncovalent interactions occurring in intermediates and transition states. Although the role of hydrogen bonding is well explored in catalysis, the other types of weak interactions, namely cation- π , anion- π , π - π stacking, pseudo- σ - π , halogen, chalcogen, pnictogen, tellurium and iodosine bonds, must also be considered. Naturally, the chemo-, regio- or stereoselectivity of a reaction depends on the stability of such noncovalent-interaction-supported species in catalytic systems. Therefore, an in-depth understanding of these weak interactions may be the key to designing new catalytic materials. Providing an overview of the role of these different types of noncovalent interactions in both homogeneous and heterogeneous catalysis, this book is a valuable resource for synthetic chemists who are interested in exploring and further developing noncovalent-interaction-assisted synthesis and catalysis. Chapter 1. The Vine -- Chapter 2. Composition of Grape Must -- Chapter 3. Must Aromas -- Chapter 4. Composition of Wine -- Chapter 5. Polyphenols -- Chapter 6. Sugars: Structure and Classification -- Chapter 7. Sugars in Must -- Chapter 8. Carboxylic Acids: Structure and Properties -- Chapter 9. Grape Acids -- Chapter 10. The Relationship between Must Composition and Quality -- Chapter 11. The Transformation of Must Into Wine -- Chapter 12. Nitrogen Compounds -- Chapter 13. Acid-Base Equilibria in Wine -- Chapter 14. Buffering Capacity of Wines -- Chapter 15. Precipitation Equilibria in Wine -- Chapter 16. Changes in Acidity After Fermentation -- Chapter 17. Redox phenomena in Must and Wine -- Chapter 18. The Colloidal State -- Chapter 19. Wine Colloids -- Chapter 20. Inorganic Material and Metal Case -- Chapter 21. Chemical Aging -- Chapter 22. Aging -- Chapter 23. Biological Aging.

For introductory biology course for science majors Focus. Practice. Engage. Built unit-by-unit, Campbell Biology in Focus achieves a balance between breadth and depth of concepts to move students away from memorization. Streamlined content enables students to prioritize essential biology content, concepts, and scientific skills that are needed to develop conceptual understanding and an ability to apply their knowledge in future courses. Every unit takes an approach to streamlining the material to best fit the needs of instructors and students, based on reviews of over 1,000 syllabi from across the country, surveys, curriculum initiatives, reviews, discussions with hundreds of biology professors, and the Vision and Change in Undergraduate Biology Education report. Maintaining the Campbell hallmark standards of accuracy, clarity, and pedagogical innovation, the 3rd Edition builds on this foundation to help students make connections across chapters, interpret real data, and synthesize their knowledge. The new edition integrates new, key scientific findings throughout and offers more than 450 videos and animations in Mastering Biology to help students actively learn, retain tough course concepts, and successfully engage with their studies and assessments. Also available with Mastering Biology By combining trusted author content with digital tools and a flexible platform, Mastering personalizes the learning experience and improves results for each student. Built for, and directly tied to the text, Mastering Biology enables an extension of learning allowing students a platform to practice, learn, and apply outside of the classroom. Note: You are purchasing a standalone product; Mastering Biology does not come packaged with this content. Students, if interested in purchasing this title with Mastering Biology ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the physical text and Mastering Biology search for: 1292325208/ 9781292325200 Campbell Biology in Focus Plus Mastering Biology with Pearson eText -- Access Card Package Package consists of: · 129232497X/ 9781292324975 Campbell Biology in Focus 1292325070/ 9781292325071 Mastering Biology with Pearson eText -- ValuePack Access Card -- for Campbell Biology in Focus "In this classic work of feminist political thought, Iris Marion Young challenges the prevailing reduction of social justice to distributive justice. The starting point for her critique is the experience and concerns of the new social movements that were created by marginal and excluded groups, including women, African Americans, and American Indians, as well as gays and lesbians. Young argues that by assuming a homogeneous public, democratic theorists fail to consider institutional arrangements for including people not culturally identified with white European male norms. Consequently, theorists do not adequately address the problems of an inclusive participatory framework. Basing her vision of the good society on the culturally plural networks of contemporary urban life, Young makes the case that normative theory and public policy should undermine group-based oppression by affirming rather than suppressing social group differences"--Provided by publisher. From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters?*

The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. THE DISAPPEARING SPOON masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that

melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear. Our high school chemistry program has been redesigned and updated to give your students the right balance of concepts and applications in a program that provides more active learning, more real-world connections, and more engaging content. A revised and enhanced text, designed especially for high school, helps students actively develop and apply their understanding of chemical concepts. Hands-on labs and activities emphasize cutting-edge applications and help students connect concepts to the real world. A new, captivating design, clear writing style, and innovative technology resources support your students in getting the most out of their textbook. - Publisher. Standard medicinal chemistry courses and texts are organized by classes of drugs with an emphasis on descriptions of their biological and pharmacological effects. This book represents a new approach based on physical organic chemical principles and reaction mechanisms that allow the reader to extrapolate to many related classes of drug molecules. The Second Edition reflects the significant changes in the drug industry over the past decade, and includes chapter problems and other elements that make the book more useful for course instruction. New edition includes new chapter problems and exercises to help students learn, plus extensive references and illustrations. Clearly presents an organic chemist's perspective of how drugs are designed and function, incorporating the extensive changes in the drug industry over the past ten years. Well-respected author has published over 200 articles, earned 21 patents, and invented a drug that is under consideration for commercialization. Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts. Lacquer Chemistry and Applications explores the topic of lacquer, the only natural product polymerized by an enzyme that has been used for a coating material in Asian countries for thousands of years. Although the human-lacquer-culture, including cultivation of the lacquer tree, harvesting, and the use of lacquer sap, has a long history of more than thousand years, there is very little information available on the modern scientific methods to study lacquer chemistry. This book, based on the results of the authors' 30 years of research on lacquer chemistry, offers lacquer researchers a unique reference on the science and applications of this extremely important material. Covers the chemistry and properties of lacquer, including synthesis of its various components. Provides up-to-date analytical techniques for lacquer identification and characterization. Discusses possible toxicity effects. Outlines new modification techniques for developing higher performance material. Presents the history of this versatile coating material that has evolved from its origins in Asian countries over thousands of years. As a key area of chemistry, improving the greenness of analytical techniques is of great interest to researchers. The last decade has seen some significant developments in this area, including the use of new smart materials as analytical tools. Covering topics including solvent selection, miniaturization and metrics for the evaluation of "greenness" this book will be of use to researchers, both in academia and in industry, interested in integrating safer and more sustainable analytical techniques into their work. The new Pearson Chemistry program combines our proven content with cutting-edge digital support to help students connect chemistry to their daily lives. With a fresh approach to problem-solving, a variety of hands-on learning opportunities, and more math support than ever before, Pearson Chemistry will ensure success in your chemistry classroom. Our program provides features and resources unique to Pearson--including the Understanding by Design Framework and powerful online resources to engage and motivate your students, while offering support for all types of learners in your classroom.

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