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KEY=EXAMPLES - DOYLE MCMAHON

CHEMISTRY

A MOLECULAR APPROACH

IONIC COMPOUNDS

APPLICATIONS OF CHEMISTRY TO MINERALOGY

John Wiley & Sons A practical introduction to ionic compounds for both mineralogists and chemists, this book bridges the two disciplines. It explains the fundamental principles of the structure and bonding in minerals, and emphasizes the relationship of structure at the atomic level to the symmetry and properties of crystals. This is a great reference for those interested in the chemical and crystallographic properties of minerals.

CHEMISTRY 2E

IONIC COMPOUNDS

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O-LEVEL CHEMISTRY CHALLENGING LEARN-BY-EXAMPLE (CONCISE) (YELLOWREEF)

Yellowreef Limited • covers latest MOE syllabus • comprehensive examples and solutions for quick revision • helps students to familiarise with various exam question-types • complete edition and concise edition eBooks available

THE PHYSICS AND CHEMISTRY OF AQUEOUS IONIC SOLUTIONS

Springer Science & Business Media J.E. Enderby At the last NATO-ASI on liquids held in Corsica, (August 1977), Professor de Gennes, in his summary of that meeting, suggested that the next ASI should concentrate on some specific aspect of the subject and mentioned explicitly ionic solutions as one possibility. The challenge was taken up by Marie-Claire Bellissent-Funel and George Neilson; I am sure that all the participants would wish to congratulate our two colleagues for putting together an outstanding programme of lectures, round tables and poster session. The theory which underlies the subject was covered by four leading authorities: J.-P. Hansen (Paris) set out the general framework in terms of the statistical mechanics of bulk and surface properties; H.L. Friedman (Stony Brook) focused attention on ionic liquids at equilibrium, and J.B. Hubbard considered non-equilibrium properties such as the electrical conductivity and ionic friction coefficients. Finally, the basic theory of polyelectrolytes treated as charged linear polymers in aqueous solution was presented by J.M. Victor (Paris).

CHEMISTRY

PART 2: ATOMS FIRST

This is part two of two for Chemistry: Atoms First by OpenStax. This book covers chapters 11-21. Chemistry: Atoms First is a peer-reviewed, openly licensed introductory textbook produced through a collaborative publishing partnership between OpenStax and the University of Connecticut and UConn Undergraduate Student Government Association. This title is an adaptation of the OpenStax Chemistry text and covers scope and sequence requirements of the two-semester general chemistry course. Reordered to fit an atoms first approach, this title introduces atomic and molecular structure much earlier than the traditional approach, delaying the introduction of more abstract material so students have time to acclimate to the study of chemistry. Chemistry: Atoms First also provides a basis for understanding the application of quantitative principles to the chemistry that underlies the entire course. The images in this textbook are grayscale.

AN INTRODUCTION TO CHEMISTRY

Benjamin-Cummings Publishing Company 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.

CHEMICAL MISCONCEPTIONS

PREVENTION, DIAGNOSIS AND CURE

Royal Society of Chemistry Chemistry is a conceptual subject and, in order to explain many of the concepts, teachers use models to describe the microscopic world and relate it to the macroscopic properties of matter. This can lead to problems, as a student's every-day experiences of the world and use of language can contradict the ideas put forward in chemical science. These titles have been designed to help tackle this issue of misconceptions. Part 1 deals with the theory, by including information on some of the key alternative conceptions that have been uncovered by research; ideas about a variety of teaching approaches that may prevent students acquiring some common alternative conceptions; and general ideas for assisting students with the development of appropriate scientific conceptions. Part 2 provides strategies for dealing with some of the misconceptions that students have, by including ready to use classroom resources including copies of probes that can be used to identify ideas held by students; some specific exercises aimed at challenging some of the alternative ideas; and classroom activities that will help students to construct the chemical concepts required by the curriculum. Used together, these two books will provide a good theoretical underpinning of the fundamentals of chemistry. Trialled in schools throughout the UK, they are suitable for teaching ages 11-18.

CHEMICAL PRINCIPLES

Benjamin-Cummings Publishing Company

STUDY GUIDE TO ACCOMPANY BASICS FOR CHEMISTRY

Elsevier Study Guide to Accompany Basics for Chemistry is an 18-chapter text designed to be used with Basics for Chemistry textbook. Each chapter contains Overview, Topical Outline, Skills, and Common Mistakes, which are all keyed to the textbook for easy cross reference. The Overview section summarizes the content of the chapter and includes a comprehensive listing of terms, a summary of general concepts, and a list of numerical exercises, while the Topical Outline provides the subtopic heads that carry the corresponding chapter and section numbers as they appear in the textbook. The Fill-in, Multiple Choice are two sets of questions that include every concept and numerical exercise introduced in the chapter and the Skills section provides developed exercises to apply the new concepts in the chapter to particular examples. The Common Mistakes section is designed to help avoid some of the errors that students make in their effort to learn chemistry, while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter. After briefly dealing with an overview of chemistry, this book goes on exploring the concept of matter, energy, measurement, problem solving, atom, periodic table, and chemical bonding. These topics are followed by discussions on writing names and formulas of compounds; chemical formulas and the mole; chemical reactions; calculations based on equations; gases; and the properties of a liquid. The remaining chapters examine the solutions; acids; bases; salts; oxidation-reduction reactions; electrochemistry; chemical kinetics and equilibrium; and nuclear, organic, and biological chemistry. This study guide will be of great value to chemistry teachers and students.

CHEMISTRY: THE CENTRAL SCIENCE

Pearson Higher Education AU If you think you know the Brown, LeMay Bursten Chemistry text, think again. In response to market request, we have created the third Australian edition of the US bestseller, Chemistry: The Central Science. An extensive revision has taken this text to new heights! Triple checked for scientific accuracy and consistency, this edition is a more seamless and cohesive product, yet retains the clarity, innovative pedagogy, functional problem-solving and visuals of the previous version. All artwork and images are now consistent in quality across the entire text. And with a more traditional and logical organisation of the Organic Chemistry content, this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding, development of problem solving skills, reference and test preparation.

DESCRIPTIVE INORGANIC CHEMISTRY, THIRD EDITION

Macmillan For lower-division courses with an equal balance of description and theory.

IONIC EQUILIBRIUM

SOLUBILITY AND PH CALCULATIONS

John Wiley & Sons A celebrated classic in the field updated and expanded to include the latest computerized calculation techniques In 1964, James N. Butler published a book in which he presented some simple graphical methods of performing acid-base, solubility, and complex formation equilibrium calculations. Today, both the book and these methods have become standard for generations of students and professionals in fields ranging from environmental science to analytical chemistry. Named a "Citation Classic" by the Science Citation Index in 1990, the book, *Ionic Equilibrium*, continues to be one of the most widely used texts on the subject. So why tamper with near-perfection by attempting a revision of that classic? The reason is simple-- the recent rapid development and wide availability of personal computers. In the revised *Ionic Equilibrium*, Dr. Butler updates his 1964 work by abandoning the slide rule and graph paper for the PC spreadsheet. He also expands the original coverage with extensive material on basic principles and recent research. The first part of *Ionic Equilibrium* is devoted to the fundamentals of acid-base, solubility, and complex formation equilibria. In the second part, the author discusses oxidation-reduction equilibria, develops the principles of carbon dioxide equilibria, presents case studies demonstrating the ways in which carbon dioxide equilibria are used in physiology and oceanography, and explores the possibility of a pH scale for brines. The concluding chapter, written by David R. Cogley, gives examples of general computer programs that are capable of performing equilibrium calculations on systems of many components. Replete with real-world examples, details of important calculations, and practical problems, *Ionic Equilibrium* is an ideal course text for students of environmental chemistry, engineering, or health; analytical chemistry; oceanography; geochemistry; biochemistry; physical chemistry; and clinical chemistry. It is also a valuable working resource for professionals in those fields as well as industrial chemists involved with solution chemistry.

THE 100 MOST IMPORTANT CHEMICAL COMPOUNDS

A REFERENCE GUIDE

ABC-CLIO A reference on chemical compounds explains types of chemical compounds and their molecular and structural formulas and includes entries on one hundred familiar and less well-known compounds, chosen because of their importance to health, industry, and society.

CLIFFS STUDY SOLVER: CHEMISTRY

Houghton Mifflin Harcourt The Cliffs Study Solver workbooks combine 20 percent review material with 80 percent practice problems (and the answers!) to help make your lessons stick. Cliffs Study Solver Chemistry is for students who want to reinforce their knowledge with a learn-by-doing approach. Inside, you'll get the practice you need to learn Chemistry with problem-solving tools such as Clear, concise reviews of every topic Practice problems in every chapter — with explanations and solutions A diagnostic pretest to assess your current skills A full-length exam that adapts to your skill level A glossary, examples of calculations and equations, and situational tasks can help you practice and understand chemistry. This workbook also covers measurement, chemical reactions and equations, and matter — elements, compounds, and mixtures. Explore other aspects of the language including Formulas and ionic compounds Gases and the gas laws Atoms The mole — elements and compounds Solutions and solution concentrations Chemical bonding Acids, bases, and buffers Practice makes perfect — and whether you're taking lessons or teaching yourself, Cliffs Study Solver guides can help you make the grade.

E-N-LEVEL SCIENCE CHEMISTRY LEARNING THROUGH DIAGRAMS

Singapore Asia Publishers Pte Ltd You will find this book interesting: Chemistry concepts presented in a diagrammatic form. Specially written to ease learning and to stimulate interest in Chemistry, this book will help students in acquiring and reinforcing Chemistry concepts, and especially the difficult ones, more easily and effectively. This book makes learning easier through the following features: Learning Outcomes - Learning outcomes on the header point out the concepts that you should focus on in the process of learning. Important Concepts and Key Terms - The important concepts and key terms are presented clearly in simple language. Further explanations linked to the diagrams help you better understand the concepts. Interesting Visuals - Visual aids such as concept maps, flow charts and annotated diagrams are integrated to make the concepts easier to understand and remember. Real-life Examples - These examples show real-life application of concepts and explain the inquiries on the phenomena that happen in our everyday lives. Worked Examples - Step-by-step worked examples help to reinforce your skills in solving problems. Instant Facts - These are extra information that can help you acquire a more in-depth understanding of the topic under discussion. This book complements the school curriculum and will certainly help in your preparation for the examinations.

PEARSON EDEXCEL A LEVEL CHEMISTRY (YEAR 1 AND YEAR 2)

Hodder Education Develop and assess your students' knowledge and skills throughout A level with worked examples, practical assessment guidance and differentiated end of topic questions in this updated, all-in-one textbook for Years 1 and 2. Combining everything your students need to know for the Pearson Edexcel A level Chemistry specification, this revised textbook will: - Identify the level of your students' understanding with diagnostic questions and a summary of prior knowledge at the start of the Student Book. - Provide support for all 16 required practicals with various activities and questions, along with a 'Practical' chapter covering procedural understanding and key ideas related to measurement. - Improve mathematical skills with plenty of worked examples, including notes on methods to help explain the strategies for solving each type of problem. - Offer plenty of practice with 'Test yourself' questions to help students assess their understanding and measure progress. - Encourage further reading and study with short passages of extension material. - Develop understanding with free online access to 'Test yourself' answers and an extended glossary.

SURVIVAL GUIDE TO GENERAL CHEMISTRY

CRC Press This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific, detailed step-by-step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding. Key Features: The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester. Each is written in a specific and detailed step-by-step process for problem solving, whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid/base reactions which often persists through working with acid/base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields

ELECTRON IMPACT PHENOMENA

AND THE PROPERTIES OF GASEOUS IONS

Academic Press *Electron Impact Phenomena and the Properties of Gaseous Ions, Revised Edition* deals with data pertaining to electron impact and to molecular gaseous ionic phenomena. This book discusses electron impact phenomena in gases at low pressure that involve low-energy electrons, which result in ion formation. The text also describes the use of mass spectrometers in electron impact studies and the degree of accuracy obtained when measuring electron impact energies. This book also reviews relatively low speed electrons and the transitions that result in the ionization of the atomic system. This text then discusses diatomic molecules whose mass spectra can be interpreted using the Franck-Condon principle. This selection also presents some examples of ions in solution that resemble the gaseous ions formed by electron impacts. The energies of these gaseous ions can be the key to understanding the mechanisms of ionic reactions. These examples include the olefin addition reactions and catalytic cracking. This text will prove invaluable for research chemists, students, and professors in chemistry and related fields such as organic chemistry and electrochemistry.

IONIC EQUILIBRIA IN ANALYTICAL CHEMISTRY

Springer Science & Business Media This book of general analytical chemistry – as opposed to instrumental analysis or separation methods – in aqueous solutions is focuses on fundamentals, which is an area too often overlooked in the literature. Explanations abound of the chemical and physical principles of different operations of chemical analysis in aqueous solutions. Once these principles are firmly established, numerous examples of applications are also given.

AP CHEMISTRY PREMIUM, 2022-2023: 6 PRACTICE TESTS + COMPREHENSIVE CONTENT REVIEW + ONLINE PRACTICE

Simon and Schuster Be prepared for exam day with Barron's. Trusted content from AP experts! Barron's AP Chemistry Premium: 2022-2023 includes in-depth content review and online practice. It's the only book you'll need to be prepared for exam day. Written by Experienced Educators Learn from Barron's--all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips, strategies, and study advice for exam day--it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test-taking skills with 6 full-length practice tests--3 in the book and 3 more online Strengthen your knowledge with in-depth review covering all Units on the AP Chemistry Exam Reinforce your learning with practice questions at the end of each chapter Interactive Online Practice Continue your practice with 3 full-length practice tests on Barron's Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice Gain confidence with automated scoring to check your learning progress

AP CHEMISTRY WITH ONLINE TESTS

Simon and Schuster Always study with the most up-to-date prep! Look for AP Chemistry Premium, 2022-2023, ISBN 9781506264103, on sale July 06, 2021. Publisher's Note: Products purchased from third-party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entities included with the product.

PHYSICAL METALLURGY FOR ENGINEERS

ASM International This book should be a valuable reference for experienced metallurgists, mechanical engineers, and students seeking a practical technical introduction to metallurgy. Contents are based on lectures designed for undergraduate students in mechanical engineering, and the book is an excellent introduction to the fundamentals of applied metallurgy. The book also contains numerous graphs,

tables, and explanations that can prove useful even for experienced metallurgists and researchers. Contents cover both the fundamental and applied aspects of metallurgy. The first half of the book covers the basic principles of metallurgy, the behavior of crystalline materials, and the underlying materials concepts related to the mechanical properties of metals. The second half focuses on applied physical metallurgy. This includes coverage of the metallurgy of common alloys systems such as carbon steels, alloyed steels, cast iron, and nonferrous alloys. Contents include: Introduction to Physical Metallurgy The Atomic Structure of Materials Fundamentals of Crystal Structure Basic Rules of Crystallization Imperfections in Crystalline Solids Mechanical Properties of Single-Phase Metallic Materials Metallic Alloys Equilibrium Crystallization of Iron-Carbon Alloys Non-Equilibrium Crystallization of Iron-Carbon Alloys Plain Carbon Steels Alloyed Steels Cast Iron Nonferrous Metals and Alloys.

AN INTRODUCTION TO AQUEOUS ELECTROLYTE SOLUTIONS

John Wiley & Sons *An Introduction to Aqueous Electrolyte Solutions* is a comprehensive coverage of solution equilibria and properties of aqueous ionic solutions. Acid/base equilibria, ion pairing, complex formation, solubilities, reversible emf's and experimental conductance studies are all illustrated by many worked examples. Theories of non-ideality leading to expressions for activity coefficients, conductance theories and investigations of solvation are described; great care being taken to provide detailed verbal clarification of the key concepts of these theories. The theoretical development focuses on the physical aspects, with the mathematical development being fully explained. An overview of the thermodynamic background is given. Each chapter includes intended learning outcomes and worked problems and examples to encourage student understanding of this multidisciplinary subject. An invaluable text for students taking courses in chemistry and chemical engineering. This book will also be useful for biology, biochemistry and biophysics students who may be required to study electrochemistry as part of their course. A comprehensive introduction to the behaviour and properties of aqueous ionic solutions, including clear explanation and development of key concepts and theories Clear, student friendly style clarifying complex aspects which students find difficult Key developments in concepts and theory explained in a descriptive manner to encourage student understanding Includes worked problems and examples throughout

GENERAL CHEMISTRY

Cengage Learning The eleventh edition was carefully reviewed with an eye toward strengthening the content available in OWLv2, end-of-chapter questions, and updating the presentation. Nomenclature changes and the adoption of IUPAC periodic table conventions are highlights of the narrative revisions, along with changes to the discussion of d orbitals. In-text examples have been reformatted to facilitate learning, and the accompanying Interactive Examples in OWLv2 have been redesigned to better parallel the problem-solving approach in the narrative. New Capstone Problems have been added to a number of chapters. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

INTRODUCTORY CHEMISTRY

Cengage Learning The Seventh Edition of Zumdahl and DeCoste's best-selling *INTRODUCTORY CHEMISTRY: A FOUNDATION* that combines enhanced problem-solving structure with substantial pedagogy to enable students to become strong independent problem solvers in the introductory course and beyond. Capturing student interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors explain chemical concepts by starting with the basics, using symbols or diagrams, and conclude by encouraging students to test their own understanding of the solution. This step-by-step approach has already helped hundreds of thousands of students master chemical concepts and develop problem-solving skills. The book is known for its focus on conceptual learning and for the way it motivates students by connecting chemical principles to real-life experiences in chapter-opening discussions and Chemistry in Focus boxes. The Seventh Edition now adds a questioning pedagogy to in-text examples to help students learn what questions they should be asking themselves while solving problems, offers a revamped art program to better serve visual learners, and includes a significant number of revised end-of-chapter questions. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

THE GENERAL SCIENCE COMPENDIUM FOR IAS PRELIMS GENERAL STUDIES CSAT PAPER 1, UPSC & STATE PSC

Disha Publications "The Economics Compendium" has been prepared with enormous efforts for all IAS aspirants, State PCS and other competitive exams. The book has been written with the approach to provide the best preparatory material for the exam. The book not only covers 100% syllabus but is also covered with Mind Maps, Infographics, Charts, Tables and latest exam pattern MCQs. The emphasis of the book has been on conceptual understanding and better retention which are important from the point of view of the exam. The book captures most of the important questions with explanations of the past years of the IAS Prelim exam, State PSC, NDA and other competitive exams distributed in the various chapters. The book is divided into 7 chapters followed by 2 levels of exercises with 850+ Simple MCQs & statement based MCQs.

LABORATORY MANUAL FOR PRINCIPLES OF GENERAL CHEMISTRY

John Wiley & Sons "The Laboratory Manual for Principles of General Chemistry has focused on the laboratory experience through each of its ten previous editions. Realizing that all experimental conclusions are not the same, each conclusion is dependent upon identifying an appropriate experimental procedure, selecting the proper apparatus, employing the proper techniques while systematically analyzing and interpreting the data, and minimizing the inherent variables associated with the student scientist. As a result of "good" data, a scientific and analytical conclusion is made which may or may not "be right," but consistent with the data. This approach has been prevalent throughout the previous ten editions of this manual"--

FUNDAMENTALS OF MANUFACTURING, THIRD EDITION

Society of Manufacturing Engineers *Fundamentals of Manufacturing, Third Edition* provides a structured review of the fundamentals of manufacturing for individuals planning to take SME'S Certified Manufacturing Technologist (CMfgT) or Certified Manufacturing Engineer (CMfgE) certification exams. This book has been updated according to the most recent Body of Knowledge published by the Certification Oversight and Appeals Committee of the Society of Manufacturing Engineers. While the objective of this book is to prepare for the certification process, it is a primary source of information for individuals interested in learning fundamental manufacturing concepts and practices. This book is a valuable resource for anyone with limited manufacturing experience or training. Instructor slides and the *Fundamentals of Manufacturing Workbook* are available to complement course instruction and exam preparation. Table of Contents Chapter 1: Mathematics Chapter 2: Units of Measure Chapter 3: Light Chapter 4: Sound Chapter 5: Electricity/Electronics Chapter 6: Statics Chapter 7: Dynamics Chapter 8: Strength of Materials Chapter 9: Thermodynamics and Heat Transfer Chapter 10: Fluid Power Chapter 11: Chemistry Chapter 12: Material Properties Chapter 13: Metals Chapter 14: Plastics Chapter 15: Composites Chapter 16: Ceramics Chapter 17: Engineering Drawing Chapter 18: Geometric Dimensioning and Tolerancing Chapter 19: Computer-Aided Design/Engineering Chapter 20: Product Development and Design Chapter 21: Intellectual Property Chapter 22: Product Liability Chapter 23: Cutting Tool Technology Chapter 24: Machining Chapter 25: Metal Forming Chapter 26: Sheet Metalworking Chapter 27: Powdered Metals Chapter 28: Casting Chapter 29: Joining and Fastening Chapter 30: Finishing Chapter 31: Plastics Processes Chapter 32: Composite Processes Chapter 33: Ceramic Processes Chapter 34: Printed Circuit Board Fabrication and Assembly Chapter 35: Traditional Production Planning and Control Chapter 36: Lean Production Chapter 37: Process Engineering Chapter 38: Fixture and Jig Design Chapter 39: Materials Management Chapter 40: Industrial Safety, Health and Environmental Management Chapter 41: Manufacturing Networks Chapter 42: Computer Numerical Control Machining Chapter 43: Programmable Logic Controllers Chapter 44: Robotics Chapter 45: Automated Material Handling and Identification Chapter 46: Statistical Methods for Quality Control Chapter 47: Continuous Improvement Chapter 48: Quality Standards Chapter 49: Dimensional Metrology Chapter 50: Nondestructive Testing Chapter 51: Management Introduction Chapter 52: Leadership and Motivation Chapter 53: Project Management Chapter 54: Labor Relations Chapter 55: Engineering Economics Chapter 56: Sustainable Manufacturing Chapter 57: Personal Effectiveness

METAL IONS IN SOLUTION

CHEMISTRY 'O' LEVEL GUIDE

Panpac Education Pte Ltd

DESCRIPTIVE INORGANIC CHEMISTRY

Macmillan This bestselling text introduces descriptive inorganic chemistry in a less rigorous, less mathematical way. The book uses the periodic table as basis for understanding chemical properties and uncovering relationships between elements in different groups. Rayner-Canham and Overton's text also familiarizes students with the historical background of inorganic chemistry as well as with its crucial applications (especially in regard to industrial processes and environmental issues), resulting in a comprehensive appreciation and understanding of the field and the role it will play in their fields of further study

THE ALKALI METALS

LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CESIUM, FRANCIUM

The Rosen Publishing Group, Inc Explains the characteristics of alkali metals, where they are found, how they are used by humans, and their relationship to other elements found in the periodic table.

MCAT GENERAL CHEMISTRY REVIEW 2022-2023

ONLINE + BOOK

Simon and Schuster Kaplan's *MCAT General Chemistry Review 2022-2023* offers an expert study plan, detailed subject review, and hundreds of online and in-book practice questions—all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined. Prepping for the MCAT is a true challenge. Kaplan can be your partner along the way—offering guidance on where to focus your efforts and how to organize your review. This book has been updated to match the AAMC's guidelines precisely—no more worrying about whether your MCAT review is comprehensive! The Most Practice More than 350 questions in the book and access to even more online—more practice than any other MCAT general chemistry book on the market. The Best Practice Comprehensive general chemistry subject review is written by top-rated, award-winning Kaplan instructors. Full-color, 3-D illustrations from Scientific American, charts, graphs and diagrams help turn even the most complex science into easy-to-visualize concepts. All material is vetted by editors with advanced science degrees and by a medical doctor. Online resources, including a full-length practice test, help you practice in the same computer-based format you'll see on Test Day. Expert Guidance High-yield badges throughout the book identify the top 100 topics most tested by the AAMC. We know the test: The Kaplan MCAT team has spent years studying every MCAT-related document available. Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test.

MCAT GENERAL CHEMISTRY REVIEW 2023-2024

ONLINE + BOOK

Simon and Schuster Kaplan's MCAT General Chemistry Review 2023–2024 offers an expert study plan, detailed subject review, and hundreds of online and in-book practice questions—all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined. Prepping for the MCAT is a true challenge. Kaplan can be your partner along the way—offering guidance on where to focus your efforts and how to organize your review. This book has been updated to match the AAMC's guidelines precisely—no more worrying about whether your MCAT review is comprehensive! The Most Practice More than 350 questions in the book and access to even more online—more practice than any other MCAT general chemistry book on the market. The Best Practice Comprehensive general chemistry subject review is written by top-rated, award-winning Kaplan instructors. Full-color, 3-D illustrations from Scientific American, charts, graphs and diagrams help turn even the most complex science into easy-to-visualize concepts. All material is vetted by editors with advanced science degrees and by a medical doctor. Online resources, including a full-length practice test, help you practice in the same computer-based format you'll see on Test Day. Expert Guidance High-yield badges throughout the book identify the topics most frequently tested by the AAMC. We know the test: The Kaplan MCAT team has spent years studying every MCAT-related document available. Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test.

CHEM2: CHEMISTRY IN YOUR WORLD

Cengage Learning Created by the continuous feedback of a student-tested, faculty-approved process, CHEM2 delivers a visually appealing, succinct print component, tear-out review cards for students and instructors, and a consistent online offering with OWLv2 that includes an eBook in addition to a set of interactive digital tools -- all at a value-based price and proven to increase retention and outcomes. CHEM2 also offers Go Chemistry and Thinkwell mini-video lectures, as well as online homework available through the OWL learning system. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

CHEMISTRY

PRINCIPLES, PATTERNS, AND APPLICATIONS

Emphasises on contemporary applications and an intuitive problem-solving approach that helps students discover the exciting potential of chemical science. This book incorporates fresh applications from the three major areas of modern research: materials, environmental chemistry, and biological science.

IONIC SOFT MATTER: MODERN TRENDS IN THEORY AND APPLICATIONS

PROCEEDINGS OF THE NATO ADVANCED RESEARCH WORKSHOP ON IONIC SOFT MATTER: MODERN TRENDS IN THEORY AND APPLICATION LVIV, UKRAINE, 14-17 APRIL, 2004

Springer Science & Business Media Recently there have been profound developments in the understanding and interpretation of liquids and soft matter centered on constituents with short-range interactions. Ionic soft matter is a class of conventional condensed soft matter with prevailing contribution from electrostatics and, therefore, can be subject to possible long-range correlations among the components of the material and in many cases crucially affecting its physical properties. Among the most popular representatives of such a class of materials are natural and synthetic saline environments, like aqueous and non-aqueous electrolyte solutions and molten salts as well as variety of polyelectrolytes and colloidal suspensions. Equally well known are biological systems of proteins. All these systems are examples of soft matter strongly influenced, if not dominated, by long-range forces. For more than half of century the classical theories by Debye and Hückel as well as by Derjaguin, Landau, Verwey and Owerbeek (DLVO) have been at the basis of theoretical physical chemistry and chemical engineering. The substantial progress in material science during last few decades as well as the advent of new instrumentation and computational techniques made it apparent that in many cases the classical theories break down. New types of interactions (e.g. hydrodynamic, entropic) have been discovered and a number of questions have arisen from theoretical and experimental studies. Many of these questions still do not have definite answers.

INTRODUCTION TO CHEMISTRY

Elsevier Introduction to Chemistry is a 26-chapter introductory textbook in general chemistry. This book deals first with the atoms and the arithmetic and energetics of their combination into molecules. The subsequent chapters consider the nature of the interactions among atoms or the so-called chemical bonding. This topic is followed by discussions on the nature of intermolecular forces and the states of matter. This text further explores the statistics and dynamics of chemistry, including the study of equilibrium and kinetics. Other chapters cover the aspects of ionic equilibrium, acids and bases, and galvanic cells. The concluding chapters focus on a descriptive study of chemistry, such as the representative and transition elements, organic and nuclear chemistry, metals, polymers, and biochemistry. Teachers and undergraduate chemistry students will find this book of great value.
