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Comprehensive Inorganic Chemistry Studyguide for Principles of Chemistry: The Molecular Science by Moore, John W., ISBN 9780495391586 Essentials of Chemical Biology Functional Materials Principles of Chemistry Inorganic Structural Chemistry Principles of Chemistry Principles of Chemistry Chemistry: Principles and Reactions Basic Principles and Techniques of Molecular Quantum Mechanics Chemistry Principles of Chemistry: A Molecular Approach, Books a la Carte Plus Masteringchemistry with Etext -- Access Card Package Scheikunde voor Dummies Dynamic Covalent Chemistry Supramolecular Chemistry in Corrosion and Biofouling Protection Molecules in Physics, Chemistry, and Biology Bioscience Methodologies in Physical Chemistry Principles of Physical, Organic, and Biological Chemistry Principles of Molecular Recognition Life Chemistry & Molecular Biology Principles and Methods in Supramolecular Chemistry Principles and Practices of Molecular Properties Principles of Chemistry Fundamental Principles of Molecular Modeling Principles of atomic and molecular structure Principles of Physical Chemistry Principles of Physical Chemistry Principles and Applications of Molecular Diagnostics Principles Of Nanotechnology: Molecular Based Study Of Condensed Matter In Small Systems Selected Solutions Manual [for] Principles of Chemistry A Treatise on the Principles of Chemistry Principles of Molecular Photochemistry: An Introduction Molecular Diversity and Combinatorial Chemistry The Principles of Chemistry Electron Dynamics in Molecular Interactions Principles of Modern Chemistry Computational Chemistry and Molecular Modeling Comprehensive Inorganic Chemistry: Principles of atomic and molecular structure, by W. N. Lipscomb. Theoretical and applied nuclear chemistry, by P. R. O'Connor. The actinide series, by G. T. Seaborg A Textbook of Physical Chemistry - Quantum Chemistry and Molecular Spectroscopy | Volume 4, 6th Edition Chemistry from First Principles

The field of bioscience methodologies in physical chemistry stands at the intersection of the power and generality of classical and quantum physics with the minute molecular complexity of chemistry and biology. This book provides an application of physical principles in explaining and rationalizing chemical and biological phenomena. It does not stick to the classical topics that are conventionally considered as part of physical chemistry; instead it presents principles deciphered from a modern point of view, which is the strength of this book.

This book discusses the vital role of chemistry in everyday life. It encourages readers to understand how the knowledge of chemistry is important for the development of society and a better future. The text is organized into three parts. Part 1 covers the historical aspects of chemistry and discusses how countless discoveries since the beginning of life on earth have benefited human beings. Part 2 focuses on modern life and describes chemistry's contribution to the developments in the fields of food and agriculture, energy, transportation, medicine, and communications. Part 3 emphasizes the role of chemists and educators in making the layperson aware of the benefits of chemistry without having them to go through its complexities. Written in an easy-to-understand manner and supplemented by ample number of figures and tables, the book will cater to a broad readership ranging from general readers to experts.

Principles of Physical Chemistry, Second Edition uniquely uses simple physical models as well as rigorous treatments for understanding molecular and supramolecular systems and processes. In this way the presentation assists students in developing an intuitive understanding of the subjects as well as skill in quantitative manipulations. The unifying nature of physical chemistry is emphasized in the book by its organization - beginning with atoms and molecules, and proceeding to molecular assemblies of increasing complexity, ending with the emergence of matter that carries information, i.e. the origin of life, a physicochemical process of unique importance. The aim is to show the broad scope and coherence of physical chemistry.

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title,

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including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. xxxxxxxxxxxxxx A relevant, problem-solving approach to chemistry The Third Edition of Principles of Chemistry: A Molecular Approach presents core concepts without sacrificing rigor, enabling students to make connections between chemistry and their lives or intended careers. Drawing upon his classroom experience as an award-winning educator, Professor Tro extends chemistry to the student's world by capturing student attention with examples of everyday processes and a captivating writing style. Throughout this student-friendly text, chemistry is presented visually through multi-level images that help students see the connections between the world around them (macroscopic), the atoms and molecules that compose the world (molecular), and the formulas they write down on paper (symbolic). The Third Edition improves upon the hallmark features of the text and adds new assets-Self Assessment Quizzes, Interactive Worked Examples, and Key Concept Videos-creating the best learning resource available for general chemistry students. Also Available with MasteringChemistry MasteringChemistry from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors ensure students arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics(tm). Students can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making learning more personal than ever-before, during, and after class.

A comprehensive yet accessible exploration of quantum chemical methods for the determination of molecular properties of spectroscopic relevance Molecular properties can be probed both through experiment and simulation. This book bridges these two worlds, connecting the experimentalist's macroscopic view of responses of the electromagnetic field to the theoretician's microscopic description of the molecular responses. Comprehensive in scope, it also offers conceptual illustrations of molecular response theory by means of time-dependent simulations of simple systems. This important resource in physical chemistry offers: A journey in electrodynamics from the molecular microscopic perspective to the conventional macroscopic viewpoint The construction of Hamiltonians that are appropriate for the quantum mechanical description of molecular properties Time- and frequency-domain perspectives of light-matter interactions and molecular responses of both electrons and nuclei An introduction to approximate state response theory that serves as an everyday tool for computational chemists A unified presentation of prominent molecular properties Principles and Practices of Molecular Properties: Theory, Modeling and Simulations is written by noted experts in the field. It is a guide for graduate students, postdoctoral researchers and professionals in academia and industry alike, providing a set of keys to the research literature.

This is an A level biology book, suitable also for first-year undergraduates. It sets out to explain biological principles and their applications in commercial, medical, ecological and physiological contexts. A series of annotated diagrams are linked to

Supramolecular chemistry is one of the most actively pursued fields of science. Its implications reach from molecular recognition in synthetic and natural complexes to exciting new applications in chemical technologies, materials, and biological and medical science. Principles and Methods in Supramolecular Chemistry gives a systematic and concise overview of this diverse subject. Particular emphasis is given to the physical principles and methods which are important in the design, characterization, and application of supramolecular systems. Features that make this monograph essential reading for graduates and researchers in this area include: * A comprehensive overview of non-covalent interactions in supramolecular complexes * A guide to characterizing such complexes by physical methods * Selected applications of synthetic supramolecular systems * Question and answer sections * Illustrations from the Author's webpage which compliment the book.

"This admirable text provides a solid foundation in the fundamentals of physical chemistry including quantum mechanics and statistical mechanics/thermodynamics. The presentation assists the students in developing an intuitive understanding of the subjects as well as skill in quantitative manipulations. Particularly exciting is the treatment of larger molecular systems. With a firm but gentle hand, the student is led to several organized molecular assemblies including supramolecular systems and models of the origin of life. By learning of some

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of the most productive areas of current chemical research, the student may see the discipline as an active, young science in addition to its many accomplishments of earlier years. This text makes physical chemistry fun and demonstrates why so many find it a stimulating and rewarding profession." Professor Edel Wasserman, President (1999) of the American Chemical Society

Volume 1: General Introduction to Molecular Sciences Volume 2: Physical Aspects of Molecular Systems
Volume 3: Electronic Structure and Chemical Reactivity Volume 4: Molecular Phenomena in Biological Sciences

This latest edition of CHEMISTRY: PRINCIPLES AND REACTIONS takes students directly to the crux of chemistry's fundamental concepts and allows you to efficiently cover all topics found in a typical general chemistry book. Based on the authors' extensive teaching experience, the book includes rigorous graded and concept-driven examples, as well as examples that focus on molecular reasoning and understanding. The Eighth Edition features a new and innovative example format, new talking labels within artwork, 25% new or revised problems, Chemistry: Beyond the Classroom essays that highlight some of the most up-to-date uses of chemistry, and end-of-chapter questions and Key Concepts that correlate to OWLv2, the #1 online homework and tutorial system for chemistry. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The gap between introductory level textbooks and highly specialized monographs is filled by this modern textbook. It provides in one comprehensive volume the in-depth theoretical background for molecular modeling and detailed descriptions of the applications in chemistry and related fields like drug design, molecular sciences, biomedical, polymer and materials engineering. Special chapters on basic mathematics and the use of respective software tools are included. Numerous numerical examples, exercises and explanatory illustrations as well as a web site with application tools (<http://www.amrita.edu/cen/ccmm>) support the students and lecturers.

Written for advanced undergraduate and graduate students, this textbook makes the main concepts of combinatorial chemistry accessible to the non-specialist.

New textbooks at all levels of chemistry appear with great regularity. Some fields like basic biochemistry, organic reaction mechanisms, and chemical thermodynamics are well represented by many excellent texts, and new or revised editions are published sufficiently often to keep up with progress in research. However, some areas of chemistry, especially many of those taught at the graduate level, suffer from a real lack of up-to-date textbooks. The most serious needs occur in fields that are rapidly changing. Textbooks in these subjects usually have to be written by scientists actually involved in the research which is advancing the field. It is not often easy to persuade such individuals to set time aside to help spread the knowledge they have accumulated. Our goal, in this series, is to pinpoint areas of chemistry where recent progress has outpaced what is covered in any available textbooks, and then seek out and persuade experts in these fields to produce relatively concise but instructive introductions to their fields. These should serve the needs of one semester or one quarter graduate courses in chemistry and biochemistry. In some cases, the availability of texts in active research areas should help stimulate the creation of new courses. New York, New York CHARLES R. CANTOR Preface This book is not a traditional quantum chemistry textbook. Instead, it represents a concept that has evolved from teaching graduate courses in quantum chemistry over a number of years, and encountering students with diverse backgrounds.

The importance of molecular recognition in chemistry and biology is reflected in a recent upsurge in relevant research, promoted in particular by high-profile initiatives in this area in Europe, the USA and Japan. Although molecular recognition is necessarily microscopic in origin, its consequences are de facto macroscopic. Accordingly, a text that starts with intermolecular interactions between simple molecules and builds to a discussion of molecular recognition involving larger scale systems is timely. This book was planned with such a development in mind. The book begins with an elementary but rigorous account of the various types of forces between molecules. Chapter 2 is concerned with the hydrogen bond between pairs of simple molecules in the gas phase, with particular reference to the preferred relative orientation of the pair and the ease with which this can be distorted. This microscopic view continues in chapter 3 wherein the

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nature of interactions between solute molecules and solvents or between two or more solutes is examined from the experimental standpoint, with various types of spectroscopy providing the probe of the nature of the interactions. Molecular recognition is central to the catalysis of chemical reactions, especially when bonds are to be broken and formed under the severe constraint that a specific configuration is to result, as in the production of enantiotopically pure compounds. This important topic is considered in chapter 4.

This text develops photochemical and photophysical concepts from a set of familiar principles. Principles of Molecular Photochemistry provides in-depth coverage of electronic spin, the concepts of electronic energy transfer and electron transfer, and the progress made in theoretical and experimental electron transfer.

"This excellent work fills the need for an upper-level graduate course resource that examines the latest biochemical, biophysical, and molecular biological methods for analyzing the structures and physical properties of biomolecules. This reviewer showed [the book] to several of his senior graduate students, and they unanimously gave the book rave reviews. Summing Up: Highly recommended" CHOICE Chemical biology is a rapidly developing branch of chemistry, which sets out to understand the way biology works at the molecular level. Fundamental to chemical biology is a detailed understanding of the syntheses, structures and behaviours of biological macromolecules and macromolecular lipid assemblies that together represent the primary constituents of all cells and all organisms. The subject area of chemical biology bridges many different disciplines and is fast becoming an integral part of academic and commercial research. This textbook is designed specifically as a key teaching resource for chemical biology that is intended to build on foundations laid down by introductory physical and organic chemistry courses. This book is an invaluable text for advanced undergraduates taking biological, bioorganic, organic and structural chemistry courses. It is also of interest to biochemists and molecular biologists, as well as professionals within the medical and pharmaceutical industry. Key Features: A comprehensive introduction to this dynamic area of chemistry, which will equip chemists for the task of understanding and studying the underlying principles behind the functioning of biological macromolecules, macromolecular lipid assemblies and cells. Covers many basic concepts and ideas associated with the study of the interface between chemistry and biology. Includes pedagogical features such as: key examples, glossary of equations, further reading and links to websites. Clearly written and richly illustrated in full colour.

"Functional Materials textbook is not simply a review of the vast body of literature of the recent years, as it holds the focus upon various aspects of application. Moreover, it selects only a few topics in favor of a solid and thorough treatment of the relevant aspects. This book comes in a good time, when a large body of academic literature has been accumulated and is waiting for a critical inspection in the light of the real demands of application." Professor Gerhard Wegner, Max-Planck Institute for Polymer Research, Mainz, Germany The chapters cover three important fields in the development of functional materials: energy, environment, and biomedical applications. These topics are explained and discussed from both an experimental and a theoretical perspective. Functional organic and inorganic materials are at the center of most technological breakthroughs. Therefore, the understanding of material properties is fundamental to the development of novel functionalities and applications.

This invaluable book provides a pointed introduction to the fascinating subject of bottom-up nanotechnology with emphasis on the molecular-based study of condensed matter in small systems. Nanotechnology has its roots in the landmark lecture delivered by the famous Nobel Laureate physicist, Richard Feynman, on 29 December 1959 entitled "There's Plenty of Room at the Bottom." By the mid-1980s, it had gained real momentum with the invention of scanning probe microscopes. Today, nanotechnology promises to have a revolutionary impact on the way things are designed and manufactured in the future. Principles of Nanotechnology is self-contained and unified in presentation. It may be used as a textbook by graduate students and even ambitious undergraduates in engineering, and the biological and physical sciences who already have some familiarity with quantum and statistical mechanics. It is also suitable for experts in related fields who require an overview of the fundamental topics in nanotechnology. The explanations in the book are detailed enough to capture the interest of the curious reader, and complete enough to provide the necessary background material needed to go further into the subject and explore the research literature. Due to the interdisciplinary nature of nanotechnology, a comprehensive glossary is included detailing abbreviations, chemical formulae, concepts, definitions, equations and theories.

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The first and only exhaustive review of the theory, thermodynamic fundamentals, mechanisms, and design principles of dynamic covalent systems *Dynamic Covalent Chemistry: Principles, Reactions, and Applications* presents a comprehensive review of the theory, thermodynamic fundamentals, mechanisms, and design principles of dynamic covalent systems. It features contributions from a team of international scientists, grouped into three main sections covering the principles of dynamic covalent chemistry, types of dynamic covalent chemical reactions, and the latest applications of dynamic covalent chemistry (DCvC) across an array of fields. The past decade has seen tremendous progress in (DCvC) research and industrial applications. The great synthetic power and reversible nature of this chemistry has enabled the development of a variety of functional molecular systems and materials for a broad range of applications in organic synthesis, materials development, nanotechnology, drug discovery, and biotechnology. Yet, until now, there have been no authoritative references devoted exclusively to this powerful synthetic tool, its current applications, and the most promising directions for future development. *Dynamic Covalent Chemistry: Principles, Reactions, and Applications* fills the yawning gap in the world literature with comprehensive coverage of: The energy landscape, the importance of reversibility, enthalpy vs. entropy, and reaction kinetics Single-type, multi-type, and non-covalent reactions, with a focus on the advantages and disadvantages of each reaction type Dynamic covalent assembly of discrete molecular architectures, responsive polymer synthesis, and drug discovery Important emerging applications of dynamic covalent chemistry in nanotechnology, including both material- and bio-oriented directions Real-world examples describing a wide range of industrial applications for organic synthesis, functional materials development, nanotechnology, drug delivery and more *Dynamic Covalent Chemistry: Principles, Reactions, and Applications* is must-reading for researchers and chemists working in dynamic covalent chemistry and supramolecular chemistry. It will also be of value to academic researchers and advanced students interested in applying the principles of (DCvC) in organic synthesis, functional materials development, nanotechnology, drug discovery, and chemical biology.

NOTE: You are purchasing a standalone product; MasteringA&P does not come packaged with this content. If you would like to purchase both the physical text and MasteringA&P search for ISBN-10: 0321971167/ISBN-13: 9780321971166. That package includes ISBN-10: 0321971949/ISBN-13: 9780321971944 and ISBN-10: 0133890686/ISBN-13: 9780133890686. A relevant, problem-solving approach to chemistry The Third Edition of *Principles of Chemistry: A Molecular Approach* presents core concepts without sacrificing rigor, enabling students to make connections between chemistry and their lives or intended careers. Drawing upon his classroom experience as an award-winning educator, Professor Tro extends chemistry to the student's world by capturing student attention with examples of everyday processes and a captivating writing style. Throughout this student-friendly text, chemistry is presented visually through multi-level images that help students see the connections between the world around them (macroscopic), the atoms and molecules that compose the world (molecular), and the formulas they write down on paper (symbolic). The Third Edition improves upon the hallmark features of the text and adds new assets—Self Assessment Quizzes, Interactive Worked Examples, and Key Concept Videos—creating the best learning resource available for general chemistry students. Also Available with MasteringChemistry This title is also available with MasteringChemistry – an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them better absorb course material and understand difficult concepts. Students, if interested in purchasing this title with MasteringChemistry, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information.

The essential introduction to the understanding of the structure of inorganic solids and materials. This revised and updated 2nd Edition looks at new developments and research results within Structural Inorganic Chemistry in a number of ways, special attention is paid to crystalline solids, elucidation and description of the spatial order of atoms within a chemical compound. Structural principles of inorganic molecules and solids are described through traditional concepts, modern bond-theoretical theories, as well as taking symmetry as a leading principle.

This volume provides a comprehensive introduction to the theory of electronic motion in molecular processes — an increasingly relevant and rapidly expanding segment of molecular quantum dynamics. Emphasis is placed on describing and interpreting transitions between electronic states in molecules as they occur typically in cases of reactive scattering between molecules, photoexcitation or nonadiabatic coupling

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between electronic and nuclear degrees of freedom. Electron Dynamics in Molecular Interactions aims at a synoptic presentation of some very recent theoretical efforts to solve the electronic problem in quantum molecular dynamics, contrasting them with more traditional schemes. The presented models are derived from their roots in basic quantum theory, their interrelations are discussed, and their characteristic applications to concrete chemical systems are outlined. This volume also includes an assessment of the present status of electron dynamics and a report on novel developments to meet the current challenges in the field. Further, this monograph responds to a need for a systematic comparative treatise on nonadiabatic theories of quantum molecular dynamics, which are of considerably higher complexity than the more traditional adiabatic approaches and are steadily gaining in importance. This volume addresses a broad readership ranging from physics or chemistry graduate students to specialists in the field of theoretical quantum dynamics. Contents: Preparations: Ab Initio Theory of Electronic Structure The Adiabatic and the Diabatic Representation Basic Concepts of Scattering Theory Semiclassical Notions Open Systems: Elements of Rate Theory Methods: Time-Independent Theory of Molecular Collisions I: Multichannel Scattering Time-Independent Theory of Molecular Collisions II: The Electronic Problem The Time-Dependent Self-consistent Field Theory Evolution of Coherent Molecular States: Electron Nuclear Dynamics Theory The Classical Electron Analog Hopping and Spawning Semiclassical Propagator Techniques Quantum Hydrodynamics I: Coupled Trajectories in Bohmian Mechanics Quantum Hydrodynamics II: The Semiclassical Liouville-Von Neumann Equation Wavepacket Propagation Methods Density Functional Dynamics Decoherence Special Topics: Ultrafast Optical Spectroscopy Optical Control of Electron Multistate Molecular Dynamics Electron Transfer in Condensed Media Electronic Friction in Molecule-Surface Interactions Readership: Graduate students and researchers in physical chemistry and computational physics; industrial chemists and physicists interested in the field. Key Features: This book provides an overview of the recent nonadiabatic theories of quantum molecular dynamics that are widely used and highly acknowledged in the community of physical chemists There is currently no other book available in the market that shares the publication scope of this book It can be used as a supplementary textbook to graduate level course in quantum chemistry or chemical dynamics Keywords: Nonadiabatic Processes; Electronic Transitions; Molecular Dynamics; Quantum Trajectories; Wavepacket Propagation

Principles and Aspects of Molecular Diagnostics is an accessible guide for clinical chemists and biologists applying molecular technology to clinical diagnosis. The book consists of two parts, with Part One covering principles and analytical concepts in molecular diagnostics, such as genomes and variants, nucleic acids isolation and techniques, circulating tumor cells and DNA, and cellular DNA. Part Two presents clinical applications of molecular diagnostics in solid tumors, prenatal diagnosis, infectious disease, genetic disease, hematopoietic malignancies, pharmacogenetics and identity testing. This book is ideal for those who need a thorough, yet succinct, guide on the use of this technology for molecular testing. Explains the principles and tools of molecular biology, along with the modern analytical tools that can be used to obtain the best results Offers authoritative information written and edited by the top experts in molecular diagnostics Provides references to seminal books, review articles and technical articles that go into greater depth, thus serving as the basis for further study

Supramolecular chemistry, "the chemistry beyond the molecule", is a fascinating realm of modern science. The design of novel supramolecular structures, surfaces, and techniques are at the forefront of research in different application areas, including corrosion and biofouling protection. A team of international experts provide a comprehensive view of the applications and potential of supramolecular chemistry in corrosion and biofouling prevention. Chapter topics include types and fundamentals of supramolecules, supramolecular polymers and gels, host-guest inclusion compounds, organic-inorganic hybrid materials, metallo-assemblies, cyclodextrins, crown ethers, mesoporous silica and supramolecular structures of graphene and other advances. Additional Features include: Focuses on different aspects of supramolecular chemistry in corrosion and biofouling prevention. Comprehensively covers supramolecular interactions that can provide better corrosion and biofouling protection. Provides the latest developments in self-healing coatings. Explores recent research advancements in the suggested area. Includes case studies specific to industries. The different supramolecular approaches being investigated to control corrosion and biofouling are gathered in one well-organized reference to serve senior undergraduate and graduate students, research students, engineers, and researchers in the fields of corrosion science & engineering, biofouling, and protective coatings.

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molecular similarity problems have only recently been recognized as a major contributor to our understanding of molecular properties. Advanced approaches to molecular similarity analysis have their foundation in quantum similarity measures, and are important direct or indirect contributors to some of the predictive theoretical, computational, and also experimental methods of modern chemistry. This volume provides a survey of the foundations and the contemporary mathematical and computational methodologies of molecular similarity approaches, where special emphasis is given to applications of similarity studies to a range of practical and industrially significant fields, such as pharmaceutical drug design. The authors of individual chapters are leading experts in various sub-fields of molecular similarity analysis and the related fundamental theoretical chemistry topics, as well as the relevant computational and experimental methodologies. Whereas in each chapter the emphasis is placed on a different area, nevertheless, the overall coverage and the wide scope of the book provides the reader with a general yet sufficiently detailed description that may serve as a good starting point for new studies and applications of molecular similarity approaches. The editors of this volume are grateful to the authors for their contributions, and hope that the readers will find this book a useful and motivating source of information in the rapidly growing field of molecular similarity analysis.

This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value--this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. xxxxxxxxxxxxxx A relevant, problem-solving approach to chemistry The Third Edition of Principles of Chemistry: A Molecular Approach presents core concepts without sacrificing rigor, enabling students to make connections between chemistry and their lives or intended careers. Drawing upon his classroom experience as an award-winning educator, Professor Tro extends chemistry to the student's world by capturing student attention with examples of everyday processes and a captivating writing style. Throughout this student-friendly text, chemistry is presented visually through multi-level images that help students see the connections between the world around them (macroscopic), the atoms and molecules that compose the world (molecular), and the formulas they write down on paper (symbolic). The Third Edition improves upon the hallmark features of the text and adds new assets--Self Assessment Quizzes, Interactive Worked Examples, and Key Concept Videos--creating the best learning resource available for general chemistry students. Personalize Learning with MasteringChemistry MasteringChemistry from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors ensure students arrive ready to learn by assigning educationally effective content before class, and encourage critical thinking and retention with in-class resources such as Learning Catalytics(tm). Students can further master concepts after class through traditional and adaptive homework assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making learning more personal than ever--before, during, and after class.

Dit boek behandelt de theorie en pikt en passant ook nog kernenergie mee en een hoop natuurkunde.

Long considered the standard for honors and high-level mainstream general chemistry courses, PRINCIPLES OF MODERN CHEMISTRY continues to set the standard as the most modern, rigorous, and chemically and mathematically accurate text on the market. This authoritative text features an atoms first approach and thoroughly revised chapters on Quantum Mechanics and Molecular Structure (Chapter 6), Electrochemistry (Chapter 17), and Molecular Spectroscopy and Photochemistry (Chapter 20). In addition, the text utilizes mathematically accurate and artistic atomic and molecular orbital art, and is student friendly without compromising its rigor. End-of-chapter study aids now focus on only the most important key objectives, equations and concepts, making it easier for students to locate chapter content, while new applications to a wide range of disciplines, such as biology, chemical engineering, biochemistry, and medicine deepen students' understanding of the relevance of chemistry beyond the classroom. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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"Chemistry from First Principles" examines the appearance of matter in its most primitive form. It features the empirical rules of chemical affinity that regulate the synthesis and properties of molecular matter, analyzes the compatibility of the theories of chemistry with the quantum and relativity theories of physics, formulates a consistent theory based on clear physical pictures and manageable mathematics to account for chemical concepts such as the structure and stability of atoms and molecules. This text also explains the self-similarity between space-time, nuclear structure, covalent assembly, biological growth, planetary systems, and galactic conformation.

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780495391586. This item is printed on demand.

Volume 4 is the fourth of the 7-volume series on Physical Chemistry written by Dr. K L Kapoor. This book is useful for 4th and 5th semester students of B.Sc Chemistry (Hons and Gen). Updated sixth edition on Quantum Chemistry and Molecular Spectroscopy is divided into 5 chapters and focuses on atomic structure, chemical bonding, electrical and magnetic properties, molecular spectroscopy and its applications. IUPAC recommendations along with SI units have been incorporated in this book. The revised edition includes probability of finding harmonic oscillator in classical forbidden region; commutator of x_n and p_m ; E-type and P-type of delayed fluorescence; and Jablonski diagram to display electronic transitions in a molecule. Salient Features: • Strictly in accordance with latest IUPAC recommendations and SI units being adopted throughout the text • Comprehensive coverage of wave mechanics, energy quantization and atomic structure, theories of covalent bond, electrical and magnetic properties of molecules, molecular spectroscopy, molecular symmetry and its applications • Perfect blend of both theoretical and application-based concepts • Extensive chapter-end numericals including Revisionary Problems, Try Yourself Problems and Numerical Problems

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