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provides essential information for students of inorganic chemistry or for chemists pursuing self study The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly Inorganic Chemistry 2E is divided into five major themes structure condensed phases solution chemistry main group and coordination compounds with several chapters in each There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures to behavior of solids etc The author emphasizes fundamental principles including molecular structure acid base chemistry coordination chemistry ligand field theory and solid state chemistry and presents topics in a clear concise manner There is a reinforcement of basic principles throughout the book For example the hard soft interaction principle is used to explain hydrogen bond strengths strengths of acids and bases stability of coordination compounds etc The book contains a balance of topics in theoretical and descriptive chemistry New to this Edition New and improved illustrations including symmetry and 3D molecular orbital representations Expanded coverage of spectroscopy instrumental techniques organometallic and bio inorganic chemistry More in text worked out examples to encourage active learning and to prepare students for their exams Concise coverage maximizes student understanding and minimizes the inclusion of details students are unlikely to use Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets

Higher Level Chemistry Catrin Brown, Mike Ford, 2009

Providing complete coverage of the latest syllabus requirements this book is written by two highly experienced IB Chemistry teachers examiners and workshop leaders

Inorganic Chemistry James E. House, 2025-01-27 Inorganic Chemistry Fourth Edition provides essential information for students of inorganic chemistry and is updated throughout The presentation of topics is made with an effort to be clear and concise so that the book is portable and user friendly The text emphasizes fundamental principles including molecular structure acid base chemistry coordination chemistry ligand field theory and solid state chemistry It is organized into five major themes structure condensed phases solution chemistry main group and coordination compounds with several chapters in each There is a logical progression from atomic structure to molecular structure to properties of substances based on molecular structures to behavior of solids etc The textbook contains a balance of topics in theoretical and descriptive chemistry For example the hard soft interaction principle is used to explain hydrogen bond strengths strengths of acids and bases stability of coordination compounds etc Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets This new edition features updates throughout with an emphasis on bioinorganic chemistry and a new chapter on nanostructures and graphene More in text worked out examples encourage active learning and prepare students for their exams This text is ideal for advanced undergraduate and graduate level students enrolled in the Inorganic Chemistry course This core course serves Chemistry

and other science majors The book may also be suitable for biochemistry medicinal chemistry and other professionals who wish to learn more about this subject area Physical chemistry is incorporated to show the relevant principles from bonding theory and thermodynamics while also emphasizing the chemical characteristics of main group elements and coordination chemistry An extensive revision to the bioinorganic chemistry chapter brings the student up to date on cutting edge research Discussion of elements begins with survey chapters focused on the main groups while later chapters cover the elements in greater detail Each chapter opens with narrative introductions and includes figures tables and end of chapter problem sets New to this edition More descriptive language sentences flow more logically than they do in numerous chemistry books Additional coverage on topics as photovoltaic compounds metal oxide catalysts superconductivity flame fusion synthesis splitting water nanoparticles synthesis and use high temperature syntheses Updated end of chapter exercises

Fundamentals of Quantum Chemistry James E. House, 2003-10-14 Fundamentals of Quantum Chemistry is an introduction to the principles of quantum mechanics needed in physical chemistry Mathematical tools are presented and developed as needed and only basic calculus chemistry and physics is assumed Applications include atomic and molecular structure spectroscopy alpha decay tunneling and superconductivity New edition includes sections on perturbation theory orbital symmetry of diatomic molecules the Huckel MO method and Woodward Hoffman rules as well as a new chapter on SCF and Hartree Fock methods This revised text clearly presents basic quantum mechanics for students in chemistry Separate sections treat needed mathematical techniques Presents complete mathematical details of derivations Contains applications of quantum mechanics to a broad range of problems in spectroscopy and molecular structure New in this Edition A new chapter on molecular orbital calculations extended H ckel and self consistent field A significant number of additional figures and improvements to existing figures New exercises plus answers for selected problems Now includes the photoelectric effect the perturbation treatment of the helium atom orbital symmetry and chemical reactions and molecular term symbols Careful and extensive edits throughout the text improve clarity and correct minor errors

Fundamentals of Quantum Mechanics James E. House, 2017-04-19 Fundamentals of Quantum Mechanics Third Edition is a clear and detailed introduction to quantum mechanics and its applications in chemistry and physics All required math is clearly explained including intermediate steps in derivations and concise review of the math is included in the text at appropriate points Most of the elementary quantum mechanical models including particles in boxes rigid rotor harmonic oscillator barrier penetration hydrogen atom are clearly and completely presented Applications of these models to selected real world topics are also included This new edition includes many new topics such as band theory and heat capacity of solids spectroscopy of molecules and complexes including applications to ligand field theory and small molecules of astrophysical interest Accessible style and colorful illustrations make the content appropriate for professional researchers and students alike Presents results of quantum mechanical calculations that can be performed with readily available software Provides

exceptionally clear discussions of spin orbit coupling and group theory and comprehensive coverage of barrier penetration quantum mechanical tunneling that touches upon hot topics such as superconductivity and scanning tunneling microscopy Problems given at the end of each chapter help students to master concepts Chemistry, Standard Level, for the Ib Diploma (Etext) (Access Code Card) (Pearson Baccalaureate) Catrin Brown, Mike Ford, 2018-02-10 *God, Humanity and the Cosmos - 2nd Edition* Christopher Southgate, 2005-12-01 Contributors include Christopher Southgate John Hedley Brooke Celia Deane Drummond Paul D Murray Michael Robert Negus Lawrence Osborn Michael Poole Jacqui Stewart Fraser Watts David Wilkinson This fully revised and updated edition of *God Humanity and the Cosmos* includes new chapters by John Hedley Brooke Paul D Murray and David Wilkinson In addition to a systematic exploration of contemporary perspectives in physics evolutionary biology and psychology as they relate to theological descriptions of the universe humanity and consciousness the book now provides a thorough survey of the theological philosophical and historical issues underpinning the science religion debate Contributors also examine such issues as theological responses to the ecological crisis and to biotechnology how science is treated and valued in education and the relation of science to Islamic thought Dr Christopher Southgate is Lecturer in Theology at the University of Exeter

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0470219645 ; ISBN-13. 978- ...