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and ligand donor sets Hard-Soft Acid-Base Concept  
Chelate Effect pKa Effect Redox Potentials. Kinetic  
Aspects. Ligand Exchange or Substitution Reactions  
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of inorganic and organometallic compounds. This field covers chemical compounds that are not carbon-based, which are the subjects of organic chemistry. The distinction between the two disciplines is far from absolute, as there is much overlap in the subdiscipline of organometallic chemistry. It has applications in every aspect of the chemical ...

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Fundamentals of Inorganic Glasses, Third Edition, is a comprehensive reference on the field of glass science and engineering that covers numerous, significant advances. This new edition includes the most recent advances in glass physics and chemistry, also discussing groundbreaking applications of glassy materials. It is suitable for upper level glass science courses and professional glass scientists and engineers at industrial and government labs. Fundamental concepts, chapter-ending problem sets, an emphasis on key ideas, and timely notes on

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suggested readings are all included. The book provides the breadth required of a comprehensive reference, offering coverage of the composition, structure and properties of inorganic glasses. Clearly develops fundamental concepts and the basics of glass science and glass chemistry Provides a comprehensive discussion of the composition, structure and properties of inorganic glasses Features a discussion of the emerging applications of glass, including applications in energy, environment, pharmaceuticals, and more Concludes chapters with problem sets and suggested readings to facilitate self-study

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Advanced Inorganic Chemistry: Applications in Everyday Life connects key topics on the subject with actual experiences in nature and everyday life. Differing from other foundational texts with this emphasis on applications and examples, the text uniquely begins with a focus on the shapes (geometry) dictating intermolecular forces of attractions, leading to reactivity between molecules of different shapes. From this foundation, the text explores more advanced topics, such as: Ligands and Ligand Substitution Processes with an emphasis on Square-Planar Substitution and Octahedral

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Substitution Reactions in Inorganic Chemistry and Transition Metal Complexes, with a particular focus on Crystal-Field and Ligand-Field Theories, Electronic States and Spectra and Organometallic, Bioinorganic Compounds, including Carboranes and Metallocarboranes and their applications in Catalysis, Medicine and Pollution Control. Throughout the book, illustrative examples bring inorganic chemistry to life. For instance, biochemists and students will be interested in how coordination chemistry between the transition metals and the ligands has a direct correlation with cyanide or carbon monoxide poisoning (strong-field Cyanide or CO ligand versus weak-field Oxygen molecule). Engaging discussion of

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key concepts with examples from the real world  
Valuable coverage from the foundations of chemical bonds and stereochemistry to advanced topics, such as organometallic, bioinorganic, carboranes and environmental chemistry Uniquely begins with a focus on the shapes (geometry) dictating intermolecular forces of attractions, leading to reactivity between molecules of different shapes

Electrons, Atoms, and Molecules in Inorganic Chemistry: A Worked Examples Approach builds from fundamental units into molecules, to provide the reader with a full understanding of inorganic chemistry concepts through worked examples and full

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color illustrations. The book uniquely discusses failures as well as research success stories. Worked problems include a variety of types of chemical and physical data, illustrating the interdependence of issues. This text contains a bibliography providing access to important review articles and papers of relevance, as well as summaries of leading articles and reviews at the end of each chapter so interested readers can readily consult the original literature. Suitable as a professional reference for researchers in a variety of fields, as well as course use and self-study. The book offers valuable information to fill an important gap in the field. Incorporates questions and answers to assist readers in understanding a variety



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of problem types Includes detailed explanations and developed practical approaches for solving real chemical problems Includes a range of example levels, from classic and simple for basic concepts to complex questions for more sophisticated topics Covers the full range of topics in inorganic chemistry: electrons and wave-particle duality, electrons in atoms, chemical binding, molecular symmetry, theories of bonding, valence bond theory, VSEPR theory, orbital hybridization, molecular orbital theory, crystal field theory, ligand field theory, electronic spectroscopy, vibrational and rotational spectroscopy

Basic Concepts of Inorganic Chemistry is thoroughly

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revised and designed as a student text to meet the needs of the students preparing for various competitive examinations. Each concept and principle is unfolded systematically, reflecting the vast experience, command and authority of the author on the subject. The subject has been explained using basic principles that make things easy to understand and absorb both for beginners as well as advanced learners. Each chapter is followed by graded multiple choice questions (the core of the competitive exams) based on concepts, principles and applications, providing the student with necessary recapitulation and ensuring speed and accuracy.

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Practical Approaches to Biological Inorganic Chemistry, Second Edition, reviews the use of spectroscopic and related analytical techniques to investigate the complex structures and mechanisms of biological inorganic systems that contain metals. Each chapter presents an overview of the technique, including relevant theory, a clear explanation of what it is, how it works, and how the technique is actually used to evaluate biological structures. New chapters cover Raman Spectroscopy and Molecular Magnetochemistry, but all chapters have been updated to reflect the latest developments in discussed techniques. Practical examples, problems and many color figures are also included to illustrate

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key concepts. The book is designed for researchers and students who want to learn both the basics and more advanced aspects of key methods in biological inorganic chemistry. Presents new chapters on Raman Spectroscopy and Molecular Magnetochemistry, as well as updated figures and content throughout Includes color images throughout to enable easier visualization of molecular mechanisms and structures Provides worked examples and problems to help illustrate and test the reader's understanding of each technique Written by leading experts who use and teach the most important techniques used today to analyze complex biological structures

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Inorganic Controlled Release Technology: Materials and Concepts for Advanced Drug Formulation provides a practical guide to the use and applications of inorganic controlled release technology (iCRT) for drug delivery and other healthcare applications, focusing on newly developed inorganic materials such as bioresorbable glasses and bioceramics. The use of these materials is introduced for a wide range of applications that cover inorganic drug delivery systems for new drug development and the reformulation of existing drugs. The book describes basic concepts, principles, and industrial practices by discussing materials chemistry, physics, nano/microstructure, formulation, materials

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processing, and case studies, as well as the evaluation and characterization of iCRT systems commonly investigated during industrial R&D. Provides the first book on inorganic controlled release technology (iCRT), covering key aspects from chemistry, physics, synthetic methods, formulation design, characterization and evaluation Includes several industry-related case studies to provide practical guidance on how to use iCRT as an alternative to organic polymers systems for both future drug developments and other active ingredient applications Demonstrates how iCRT offers an unmet business need for improved, controlled release of actives versus traditional CRT systems, which are

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known to have difficulty with the controlled delivery of both poorly and highly water soluble drug compounds

This is one of the few books available that uses unifying theoretical concepts to present inorganic chemistry at the advanced undergraduate and graduate levels--most texts are organized around the periodic table, while this one is structured after bonding models, structure types, and reaction patterns. But the real strength of Porterfield's Second Edition is its clear presentation of ample background description, especially in recent areas of development such as cluster molecules, industrial catalysis, and bio-inorganic chemistry. This information will enable

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students to understand most current journals, empowering them to stay abreast of the latest advances in the field. Specific improvements of the Second Edition include new chapters on materials-science applications and bioinorganic chemistry, an extended discussion of transition-metal applications (including cuprate superconductors), and extended Tanabe-Sugano diagrams. Extended treatment of inorganic materials science--ceramics, refractories, magnetic materials, superconductors--in the context of solid-state chemistry Extended coverage of biological systems and their chemical and physiological consequences--O<sub>2</sub> metabolism, N<sub>2</sub> fixation, muscle action, iron storage, cisplatin and



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