



Inorganic Chemistry, Second Edition

William W. Porterfield

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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 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.

Key Features

- * Unique to this text
- * 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--O₂ metabolism, N₂ fixation, muscle action, iron storage, cisplatin and nucleic acid structural probes, and photosynthesis
- * Unusual structures and species--silatranes, metallacarboranes, alkalides and electrides, vapor-deposition species, proton and hybrid sponges, massive transition-metal clusters, and agostic ligands
- * Thorough examination of industrial processes using organometallic catalysts and their mechanisms
- * Entropy-driven reactions
- * Complete discussion of inorganic photochemistry

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