Inorganic chemistry deals with the synthesis and behavior of inorganic and organometallic compounds and covers all chemical compounds except the myriad organic compounds (carbon-based compounds), which are the subjects of organic chemistry. Inorganic chemistry has applications in every aspect of the chemical industry, including catalysis, materials science, pigments, surfactants, coatings, medications, fuels, and agriculture.

- Front Matter
- 1: Review of Chemical Bonding
- 2: Molecular Orbital Theory
- 3: Coordination Chemistry
- 4: Coordination Chemistry and Crystal Field Theory
- 5: Thermodynamics of Lattices
- 6: Acid-Base Chemistry
- 7: Molecular Symmetry
- 8: Solids
- 9: Electronic Properties of Materials - Superconductors and Semiconductors
- 10: Metals and Alloys- Structure, Bonding, Electronic and Magnetic Properties
- 11: Basic Science of Nanomaterials
- Back Matter