Electronic structure of atoms, periodic trends, chemical bonding, molecular geometry, intermolecular forces, phase transitions, and properties of solutions. Emphasis on engineering applications.

- Front Matter
- Unit 1: The Quantum World
- Unit 2: Electrons in Atoms
- Unit 3: Periodic Patterns
Unit 4: Lewis Structures

• Unit 5: The Strength and Shape of Covalent Bonds

• Unit 6: Molecular Polarity

• Unit 7: Intermolecular and Intramolecular Forces in Action
Unit 8: Solutions and Phase Changes

• Unit 9: Semiconductors

• Back Matter