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

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