

CHAPTER OVERVIEW

Unit 1: Atomic Structure

- 1.1: Historical Development of Atomic Theory
 - 1.1.1: Early Experiments of Atomic Theory
 - 1.1.2: Discovery of Subatomic Particles
 - 1.1.3: Quantization of Energy and Bohr Model of the Atom
 - 1.1.4: Wave-Particle Duality
- 1.2: Electronic Structure of the Atom
 - 1.2.1: Wave Quantization and Particle in a Box
 - 1.2.2: The Schrodinger Equation
 - 1.2.3: Quantum Numbers and Atomic Wave Functions
- 1.3: Multi-Electron Atoms
 - 1.3.1: Orbital Energies
 - 1.3.2: Shielding
 - 1.3.3: Aufbau Principle
 - 1.3.4: Slater's Rules
- 1.4: Periodic Properties of the Elements
 - 1.4.1: Effective Nuclear Charge
 - 1.4.2: Ionization energy
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 - 1.4.5: Lanthanide Contraction
 - 1.4.6: The Uniqueness Principle
- 1.5: Unit 1 Practice Problems

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