

## CHAPTER OVERVIEW

### 3: Light, Electrons, and the Periodic Table

3.1: Light is Visible Electromagnetic Radiation

3.1.1: The Electromagnetic Spectrum

3.2: Models of Electron Behavior

3.2.1: The Bohr Model - Atoms with Orbits

3.2.2: The Quantum-Mechanical Model- Atoms with Orbitals

3.3: Quantum-Mechanical Orbitals and Electron Configurations

3.4: Core and Valence Electrons

3.5: Electron Configurations and the Periodic Table

3.5.1: The Explanatory Power of the Quantum-Mechanical Model

3.6: Periodic Trends - Atomic Size, Ionization Energy, and Metallic Character

3.E: Electronic Structure (Exercises)

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