

CHAPTER OVERVIEW

1: The Basic Tools of Quantum Mechanics

Quantum Mechanics Describes Matter in Terms of Wavefunctions and Energy Levels and physical Measurements are Described in Terms of Operators Acting on Wavefunctions

- 1.1: Operators
- 1.2: Wavefunctions
- 1.3: The Schrödinger Equation
- 1.4: Free-Particle Motion in Two Dimensions
- 1.5: Particles in Boxes
- 1.6: One Electron Moving About a Nucleus
- 1.7: Harmonic Vibrational Motion
- 1.8: Rotational Motion for a Rigid Diatomic Molecule
- 1.9: The Physical Relevance of Wavefunctions, Operators and Eigenvalues

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