



# Quantum Mechanics

*Fayyazuddin, Riazuddin*

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## Quantum Mechanics Fayyazuddin, Riazuddin

This book provides a comprehensive account of basic concepts of quantum mechanics in a coherent manner. The book is self-contained and not only covers basic concepts in quantum mechanics but also provides a basis for applications in atomic and laser physics, nuclear and particle physics, and condensed matter physics. It also covers relativistic quantum mechanics, in particular the Dirac equation and its applications.

### Contents:

- Breakdown of Classical Concepts
- Quantum Mechanical Concepts
- Basic Postulates of Quantum Mechanics
- Solution of Problems in Quantum Mechanics
- Simple Harmonic Oscillator
- Angular Momentum
- Motion in Centrally Symmetric Field
- Collision Theory
- Operators
- Heisenberg Equation of Motion, Invariance Principle and Path Integral
- Angular Momentum and Spin
- Time Independent Perturbation Theory
- Time Dependent Perturbation Theory
- Statistics and the Exclusion Principle
- Two State Systems
- Quantum Computation
- Perturbation Induced by Electromagnetic Field
- Formal Theory of Scattering
- $S$ -Matrix and Invariance Principles
- Relativistic Quantum Mechanics: Dirac Equation
- Dirac Equation in (1+2) Dimensions: Application to Graphene

**Readership:** Students in quantum mechanics.

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