



Quantum Mechanics I: The Fundamentals

S. Rajasekar, R. Velusamy

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Quantum Mechanics I: The Fundamentals provides a graduate-level account of the behavior of matter and energy at the molecular, atomic, nuclear, and sub-nuclear levels. It covers basic concepts, mathematical formalism, and applications to physically important systems.

The text addresses many topics not typically found in books at this level, including:

- Bound state solutions of quantum pendulum
- Pöschl–Teller potential
- Solutions of classical counterpart of quantum mechanical systems
- A criterion for bound state
- Scattering from a locally periodic potential and reflection-less potential
- Modified Heisenberg relation
- Wave packet revival and its dynamics
- Hydrogen atom in D -dimension
- Alternate perturbation theories
- An asymptotic method for slowly varying potentials
- Klein paradox, Einstein-Podolsky-Rosen (EPR) paradox, and Bell's theorem
- Numerical methods for quantum systems

A collection of problems at the end of each chapter develops students' understanding of both basic concepts and the application of theory to various physically important systems. This book, along with the authors' follow-up *Quantum Mechanics II: Advanced Topics*, provides students with a broad, up-to-date introduction to quantum mechanics.

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