



## Principles Of Quantum Mechanics (Second Edition)

By R. Shankar

Springer Publisher, 2015. Softcover. Book Condition: New. 5th or later edition. 18 x 24 cm. Table of Contents 1. Mathematical Introduction 1.1. Linear Vector Spaces: Basics 1.2. Inner Product Spaces 1.3. Dual Spaces and the Dirac Notation 1.4. Subspaces 1.5. Linear Operators 1.6. Matrix Elements of Linear Operators 1.7. Active and Passive Transformations 1.8. The Eigenvalue Problem 1.9. Functions of Operators and Related Concepts 1.10. Generalization to Infinite Dimensions 2. Review of Classical Mechanics 2.1. The Principle of Least Action and Lagrangian Mechanics 2.2. The Electromagnetic Lagrangian 2.3. The Two-Body Problem 2.4. How Smart Is a Particle? 2.5. The Hamiltonian Formalism 2.6. The Electromagnetic Force in the Hamiltonian Scheme 2.7. Cyclic Coordinates, Poisson Brackets, and Canonical Transformations 2.8. Symmetries and Their Consequences 3. All Is Not Well with Classical Mechanics 3.1. Particles and Waves in Classical Physics 3.2. An Experiment with Waves and Particles (Classical) 3.3. The Double-Slit Experiment with Light 3.4. Matter Waves (de Broglie Waves) 3.5. Conclusions 4. The Postulates? a General Discussion 4.1. The Postulates 4.2. Discussion of Postulates I-III 4.3. The Schrodinger Equation (Dotting Your i's and Crossing your h's) 5. Simple Problems in One Dimension 5.1. The Free Particle 5.2. The Particle in a Box 5.3. The...



**READ ONLINE**  
[ 2.48 MB ]

### Reviews

*It becomes an remarkable publication that I have possibly go through. Better then never, though i am quite late in start reading this one. I am just delighted to inform you that this is basically the best ebook we have study inside my individual existence and can be he greatest book for actually.*

-- **Dr. Torrey Osinski DVM**

*This is actually the finest publication i actually have study right up until now. We have study and so i am confident that i am going to planning to go through again again in the foreseeable future. I am just effortlessly will get a delight of studying a published book.*

-- **Lori Bernier**