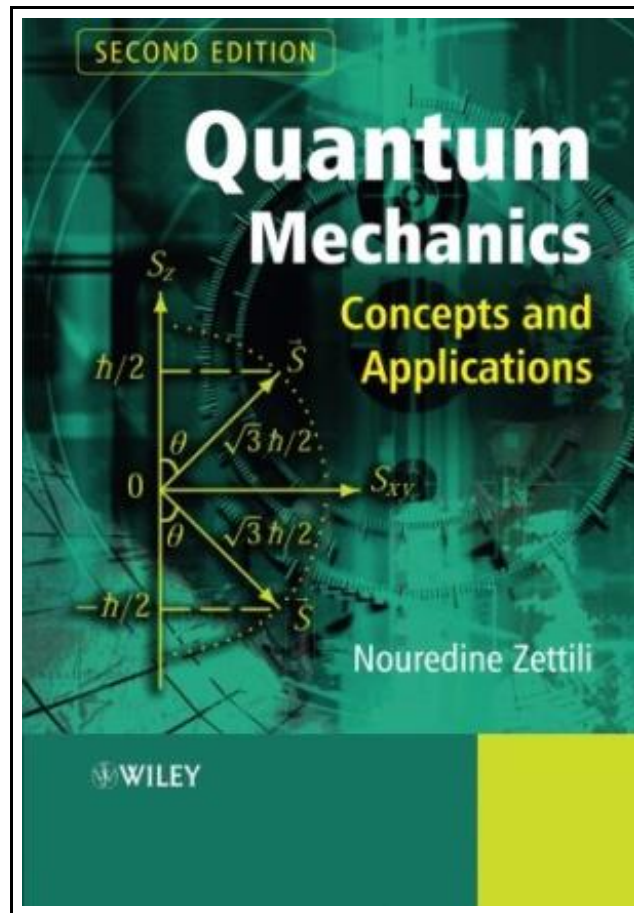


Quantum Mechanics: Concepts and Applications



Filesize: 5.61 MB

Reviews

Extensive manual for pdf fanatics. This can be for all who statte there was not a well worth looking at. I am pleased to tell you that this is basically the very best pdf i have go through inside my individual existence and might be he finest ebook for at any time.
(Dorian Roob)

QUANTUM MECHANICS: CONCEPTS AND APPLICATIONS

DOWNLOAD



Wiley, 2009. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service!
 Summary: Preface.1. Origins of Quantum Physics.1.1 Historical Note.1.2 Particle Aspect of Radiation.1.3 Wave Aspect of Particles.1.4 Particles versus Waves.1.5 Indeterministic Nature of the Microphysical World.1.6 Atomic Transitions and Spectroscopy.1.7 Quantization Rules.1.8 Wave Packets.1.9 Concluding Remarks.1.10 Solved Problems.Exercises.2. Mathematical Tools of Quantum Mechanics.2.1 Introduction.2.2 The Hilbert Space and Wave Functions.2.3 Dirac Notation.2.4 Operators.2.5 Representation in Discrete Bases.2.6 Representation in Continuous Bases.2.7 Matrix and Wave Mechanics.2.8 Concluding Remarks.2.9 Solved Problems.Exercises.3. Postulates of Quantum Mechanics.3.1 Introduction.3.2 The Basic Postulates of Quantum Mechanics.3.3 The State of a System.3.4 Observables and Operators.3.5 Measurement in Quantum Mechanics.3.6 Time Evolution of the System's State.3.7 Symmetries and Conservation Laws.3.8 Connecting Quantum to Classical Mechanics.3.9 Solved Problems.Exercises.4. One-Dimensional Problems.4.1 Introduction.4.2 Properties of One-Dimensional Motion.4.3 The Free Particle: Continuous States.4.4 The Potential Step.4.5 The Potential Barrier and Well.4.6 The Infinite Square Well Potential.4.7 The Finite Square Well Potential.4.8 The Harmonic Oscillator.4.9 Numerical Solution of the Schrödinger Equation.4.10 Solved Problems.Exercises.5. Angular Momentum.5.1 Introduction.5.2 Orbital Angular Momentum.5.3 General Formalism of Angular Momentum.5.4 Matrix Representation of Angular Momentum.5.5 Geometrical Representation of Angular Momentum.5.6 Spin Angular Momentum.5.7 Eigen functions of Orbital Angular Momentum.5.8 Solved Problems.Exercises.6. Three-Dimensional Problems.6.1 Introduction.6.2 3D Problems in Cartesian Coordinates.6.3 3D Problems in Spherical Coordinates.6.4 Concluding Remarks.6.5 Solved Problems.Exercises.7. Rotations and Addition of Angular Momenta.7.1 Rotations in Classical Physics.7.2 Rotations in Quantum Mechanics.7.3 Addition of Angular Momenta.7.4 Scalar, Vector and Tensor Operators.7.5 Solved Problems.Exercises.8. Identical Particles.8.1 Many-Particle Systems.8.2 Systems of Identical Particles.8.3 The Pauli Exclusion Principle.8.4 The Exclusion Principle and the Periodic Table.8.5 Solved Problems.Exercises.9. Approximation Methods for Stationary States.9.1 Introduction.9.2 Time-Independent Perturbation Theory.9.3 The Variational Method.9.4 The Wentzel "Kramers" Brillouin Method.9.5 Concluding Remarks.9.6 Solved Problems.Exercises.10. Time-Dependent Perturbation Theory.10.1 Introduction.10.2 The Pictures of Quantum Mechanics.10.3 Time-Dependent Perturbation Theory.10.4 Adiabatic and Sudden Approximations.10.5 Interaction of Atoms...



Read Quantum Mechanics: Concepts and Applications Online



Download PDF Quantum Mechanics: Concepts and Applications

Other PDFs



Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

HarperCollins, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword by Raph Koster. Introduction. I. EXECUTIVE CONSIDERATIONS. 1. The Market. Do We Enter the Market? Basic Considerations. How...

[Save ePub »](#)



Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children...

[Save ePub »](#)



The Web Collection Revealed, Premium Edition: Adobe Dreamweaver CS6, Flash CS6, and Photoshop CS6 (Stay Current with Adobe Creative Cloud)

Cengage Learning, 2012. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: You can now maximize and integrate the design and development power of Adobe Creative Suite 6 with WEB...

[Save ePub »](#)



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2005-09-01 Publisher: Chinese children before making Reading: All books are the...

[Save ePub »](#)



The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3 (Paperback)

Createspace, United States, 2012. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.After six years as a private investigator, Stacey Alexander has the strangest day...

[Save ePub »](#)