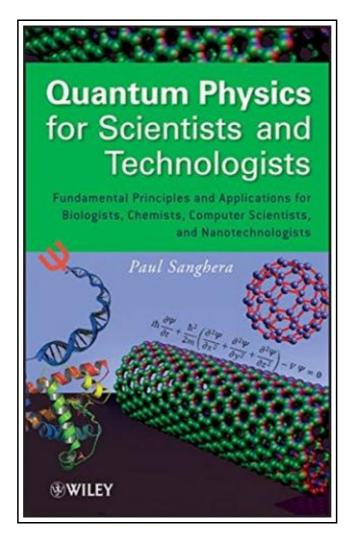
Quantum Physics for Scientists and Technologists: Fundamental Principles and Applications for Biologists, Chemists, Computer Scientists, and Nanotechnologists (Hardback)



Filesize: 2.63 MB

Reviews

This publication is definitely not simple to begin on studying but really exciting to read. It is actually rally fascinating through reading time. Your life span will be enhance when you complete looking at this publication.

(Laurence Littel)

QUANTUM PHYSICS FOR SCIENTISTS AND TECHNOLOGISTS: FUNDAMENTAL PRINCIPLES AND APPLICATIONS FOR BIOLOGISTS, CHEMISTS, COMPUTER SCIENTISTS, AND NANOTECHNOLOGISTS (HARDBACK)



John Wiley and Sons Ltd, United States, 2011. Hardback. Book Condition: New. 1. Auflage. 238 x 156 mm. Language: English . Brand New Book. Quantum Physics for Scientists and Technologists is a self-contained, comprehensive review of this complex branch of science. The book demystifies difficult concepts and views the subject through non-physics fields such as computer science, biology, chemistry, and nanotechnology. It explains key concepts and phenomena in the language of non-physics majors and with simple math, assuming no prior knowledge of the topic. This cohesive book begins with the wavefunction to develop the basic principles of quantum mechanics such as the uncertainty principle and wave-particle duality. Comprehensive coverage of quantum theory is presented, supported by experimental results and explained through applications and examples without the use of abstract and complex mathematical tools or formalisms. From there, the book: * Takes the mystery out of the Schrodinger equation, the fundamental equation of quantum physics, by applying it to atoms * Shows how quantum mechanics explains the periodic table of elements * Introduces the quantum mechanical concept of spin and spin quantum number, along with Pauli s Exclusion Principle regarding the occupation of quantum states * Addresses quantum states of molecules in terms of rotation and vibration of diatomic molecules * Explores the interface between classical statistical mechanics and quantum statistical mechanics * Discusses quantum mechanics as a common thread through different fields of nanoscience and nanotechnology Each chapter features real-world applications of one or more quantum mechanics principles. Study Checkpoints and problems with solutions are presented throughout to make difficult concepts easy to understand. In addition, pictures, tables, and diagrams with full explanations are used to present data and further explain difficult concepts. This book is designed as a complete course in quantum mechanics for senior undergraduates and first-year graduate...

- Read Quantum Physics for Scientists and Technologists: Fundamental Principles and Applications for Biologists, Chemists, Computer Scientists, and Nanotechnologists (Hardback) Online
- Download PDF Quantum Physics for Scientists and Technologists: Fundamental Principles and Applications for Biologists, Chemists, Computer Scientists, and Nanotechnologists (Hardback)

Other PDFs



Music for Children with Hearing Loss: A Resource for Parents and Teachers (Paperback)

Oxford University Press Inc, United States, 2014. Paperback. Book Condition: New. 228 x 156 mm. Language: English . Brand New Book. Written by an expert in the field who is both a teacher and a...

Save Book »



Daycare Seen Through a Teacher's Eyes: A Guide for Teachers and Parents (Paperback)

America Star Books, United States, 2010. Paperback. Book Condition: New. 224 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Between the good mornings and the good nights it s what...

Save Book »



Oxford Primary Illustrated Science Dictionary (Paperback)

Oxford University Press, United Kingdom, 2013. Paperback. Book Condition: New. 238 x 184 mm. Language: English . Brand New Book. The Oxford Primary Illustrated Science Dictionary supports the curriculum and gives comprehensive coverage of the...

Save Book »



The Water Goblin, Op. 107 / B. 195: Study Score (Paperback)

Petrucci Library Press, United States, 2013. Paperback. Book Condition: New. 238 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****. The first of four late tone poems inspired by Bouquet, a...

Save Book »



Oxford Primary Illustrated Maths Dictionary (Paperback)

Oxford University Press, United Kingdom, 2012. Paperback. Book Condition: New. 238 x 182 mm. Language: English . Brand New Book. The Oxford Primary Illustrated Maths Dictionary supports the curriculum and gives comprehensive coverage of the...

Save Book »