



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

By Paul Sanghera

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...

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