# Quantum Mechanics in a Nutshell



Gerald D. Mahan

# **Quantum Mechanics In A Nutshell**

**Sten Odenwald** 

#### **Quantum Mechanics In A Nutshell:**

An Introduction to Quantum Physics Stefanos Trachanas, 2017-11-09 This modern textbook offers an introduction to Quantum Mechanics as a theory that underlies the world around us from atoms and molecules to materials lasers and other applications The main features of the book are Emphasis on the key principles with minimal mathematical formalism Demystifying discussions of the basic features of quantum systems using dimensional analysis and order of magnitude estimates to develop intuition Comprehensive overview of the key concepts of quantum chemistry and the electronic structure of solids Extensive discussion of the basic processes and applications of light matter interactions Online supplement with advanced theory multiple choice guizzes etc **Quantum Physics of Semiconductor Materials and Devices** Debdeep Jena, 2022-05-16 Quantum Phenomena do not occur in a Hilbert space They occur in a laboratory Asher Peres Semiconductor physics is a laboratory to learn and discover the concepts of quantum mechanics and thermodynamics condensed matter physics and materials science and the payoffs are almost immediate in the form of useful semiconductor devices Debdeep Jena has had the opportunity to work on both sides of the fence on the fundamental materials science and quantum physics of semiconductors and in their applications in semiconductor electronic and photonic devices In Quantum Physics of Semiconductors and Nanostructures Jena uses this experience to make each topic as tangible and accessible as possible to students at all levels Consider the simplest physical processes that occur in semiconductors electron or hole transport in bands and over barriers collision of electrons with the atoms in the crystal or when electrons and holes annihilate each other to produce a photon The correct explanation of these processes require a quantum mechanical treatment Any shortcuts lead to misconceptions that can take years to dispel and sometimes become roadblocks towards a deeper understanding and appreciation of the richness of the subject A typical introductory course on semiconductor physics would then require prerequisites of quantum mechanics statistical physics and thermodynamics materials science and electromagnetism Rarely would a student have all this background when s he takes a course of this nature in most universities Jena's work fills in these gaps and gives students the background and deeper understanding of the quantum physics of semiconductors and nanostructures Knowledge in a Nutshell: Quantum Physics Sten Odenwald, 2020-05-01 Quantum theory is at the heart of modern physics but how does it actually work NASA scientist and communicator Sten Odenwald demystifies the subject and makes this crucial topic accessible to everyone Featuring topics such as Schrodinger's cat the wave particle duality and the newly emerging theories of quantum gravity as well as the personalities behind the science such as Max Planck Neils Bohr Werner Heisenberg Richard Feynman and many more Knowledge in a Nutshell Quantum Physics provides an essential introduction to cutting edge science Presented in an easy to understand format with diagrams illustrations and simple summary sections at the end of each chapter this new addition to the Knowledge in a Nutshell series brings clarity to some of the great mysteries of physics ABOUT THE SERIES The Knowledge in a Nutshell

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Niggol Seo, 2024-10-24 This book analyses the unprecedented economic and social challenges to human civilization from the perspective of Buddhist philosophy It reviews singularities in a broad range of scientific experiments including the theory of relativity quantum physics artificial intelligence mRNA virology stem cell biology and neuroscience to evaluate catastrophic risks posed to the present global economic and environmental order Through placing these discussions within the context of Buddhist philosophy an alternative to traditional economic and science ideas is presented. 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