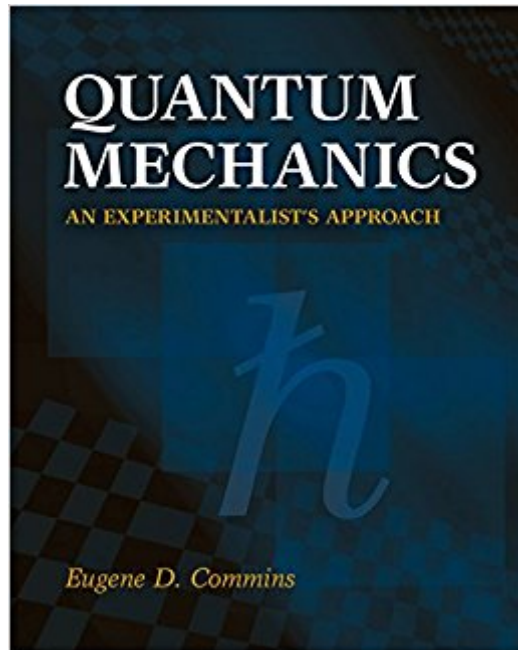




The book was found

Quantum Mechanics: An Experimentalist's Approach



Synopsis

Eugene D. Commins takes an experimentalist's approach to quantum mechanics, preferring to use concrete physical explanations over formal, abstract descriptions to address the needs and interests of a diverse group of students. Keeping physics at the foreground and explaining difficult concepts in straightforward language, Commins examines the many modern developments in quantum physics, including Bell's inequalities, locality, photon polarization correlations, the stability of matter, Casimir forces, geometric phases, Aharonov-Bohm and Aharonov-Casher effects, magnetic monopoles, neutrino oscillations, neutron interferometry, the Higgs mechanism, and the electroweak standard model. The text is self-contained, covering the necessary background on atomic and molecular structure in addition to the traditional topics. Developed from the author's well-regarded course notes for his popular first-year graduate course at UC Berkeley, instruction is supported by over 160 challenging problems to illustrate concepts and provide students with ample opportunity to test their knowledge and understanding.

Book Information

Hardcover: 720 pages

Publisher: Cambridge University Press; 1 edition (September 8, 2014)

Language: English

ISBN-10: 110706399X

ISBN-13: 978-1107063990

Product Dimensions: 8 x 1.2 x 10 inches

Shipping Weight: 4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #622,269 in Books (See Top 100 in Books) #74 in Books > Science & Math > Physics > Nuclear Physics > Atomic & Nuclear Physics #565 in Books > Science & Math > Physics > Quantum Theory #21328 in Books > Textbooks > Science & Mathematics

Customer Reviews

A self-contained introduction to help graduate and advanced undergraduate students in physics and related sciences acquire serious knowledge and understanding of quantum mechanics. Based on the author's popular course at UC Berkeley, it takes an experimentalist's approach, discussing many modern developments in addition to the traditional topics.

Eugene D. Commins is Professor Emeritus at the Department of Physics, University of California,

Berkeley, where he has been a faculty member since 1960. His main area of research is experimental atomic physics. He is a member of the National Academy of Science and a Fellow of the AAAS, and he has been awarded several prizes for his teaching, including the AAPT's Årsted Medal in 2005, its most prestigious award for notable contributions to physics teaching. He is the author (with Philip H. Bucksbaum) of the monograph *Weak Interactions of Leptons and Quarks* (Cambridge University Press, 1983).

Excellent!

Unusually clear and interesting to read. Covers a lot of ground.

[Download to continue reading...](#)

Quantum Mechanics: An Experimentalist's Approach Advanced Molecular Quantum Mechanics: An Introduction to Relativistic Quantum Mechanics and the Quantum Theory of Radiation (Studies in Chemical Physics) Quantum Mechanics: Re-engineering Your Life With Quantum Mechanics & Affirmations Quantum Ontology: A Guide to the Metaphysics of Quantum Mechanics The Quantum Mechanics Solver: How to Apply Quantum Theory to Modern Physics Quantum Nanoelectronics: An introduction to electronic nanotechnology and quantum computing Introduction to Topological Quantum Matter & Quantum Computation Quantum Runes: How to Create Your Perfect Reality Using Quantum Physics and Teutonic Rune Magic (Creating Magick with The Universal Laws of Attraction Book 1) Delirious, A Quantum Novel (Quantum Series Book 6) Quantum Thermodynamics: Emergence of Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics) Covariant Loop Quantum Gravity: An Elementary Introduction to Quantum Gravity and Spinfoam Theory (Cambridge Monographs on Mathematical Physics) Quantum Space (Quantum Series Book 1) Quantum Incident (Quantum Series Book 0) The Feynman Lectures on Physics: Volume 1, Quantum Mechanics The Feynman Lectures on Physics: Volume 2, Advanced Quantum Mechanics Hidden in Plain Sight: The Simple Link Between Relativity and Quantum Mechanics: Hidden in Plain Sight, Book 1 The Black Hole War: My Battle to Make the World Safe for Quantum Mechanics Quantum Mechanics and Its Emergent Macrophysics Solutions Manual for Molecular Quantum Mechanics Quantum Mechanics for Scientists and Engineers

[Contact Us](#)

[DMCA](#)

Privacy

FAQ & Help