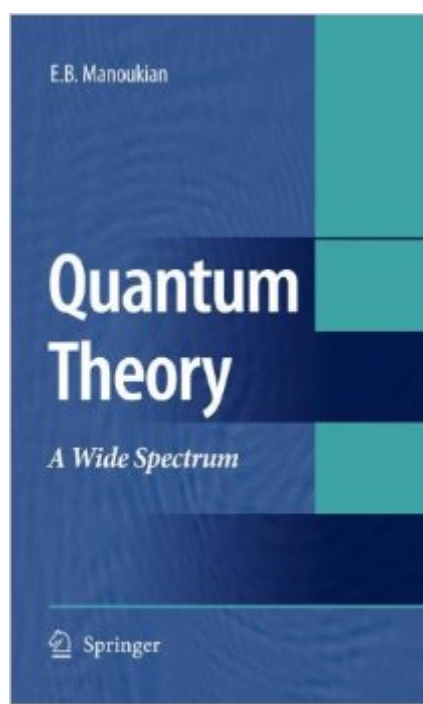


The book was found

Quantum Theory: A Wide Spectrum



Synopsis

This graduate-level textbook on quantum theory covers important recent developments and most aspects of the theory with detailed presentations. It is also a reference and research work which provides background for research in this discipline. In addition to traditional topics, coverage includes: Wigner's Theorem of symmetry transformations, Bose-Fermi oscillators, coherent states, the non-relativistic Lamb shift, Ramsey oscillatory fields methods, the AB effect, Schrödinger's cat and quantum decoherence, quantum teleportation and cryptography, quantum dynamics of the Stern-Gerlach effect.

Book Information

Hardcover: 1011 pages

Publisher: Springer; 2006 edition (November 20, 2006)

Language: English

ISBN-10: 1402041896

ISBN-13: 978-1402041891

Product Dimensions: 6.7 x 2.2 x 9.5 inches

Shipping Weight: 3.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (2 customer reviews)

Best Sellers Rank: #1,824,526 in Books (See Top 100 in Books) #271 in [Books > Science & Math > Physics > Nuclear Physics > Atomic & Nuclear Physics](#) #1326 in [Books > Science & Math > Physics > Mathematical Physics](#) #1555 in [Books > Science & Math > Physics > Quantum Theory](#)

Customer Reviews

You might think that you know the foundations of quantum mechanics until you read this textbook. You don't have to look elsewhere this is the most complete and most comprehensive textbook on the subject. The following topics covered should be noted: Selective measurements and development of the entire structure of the theory, including Wigner's symmetry transformations, as well as supersymmetry " Localizations, uncertainties, stability and decay of quantum systems " Stability of the H-atom, non-relativistic Lamb shift and anomalous magnetic moment of the electron " Measurement, interference and the role of environment " Schrodinger's cat and quantum decoherence " Quantum teleportation and quantum cryptography - Geometric phases under non-adiabatic and non-cycling conditions " Bell's test beyond the standard " Neutron interferometry " Spin flip experiments " AB effect with explicit computations " Analytical

dynamical treatment of the Stern-Gerlach experiment • Green functions • Path integrals and the quantum dynamical principle • Details on the stability of matter at large and the collapse of the bosonic one • Detailed treatment of approximating quantum systems • Scattering theory, including detailed treatment via the Coulomb one • Dirac's formalism, spinors, helicity and relativistic equations for any mass and spin, and emergence of many-particle systems • Intricacies of the Spin & Statistics Connection • Mathematics and quantum techniques hard to find in the published literature • A wealth of problems are included, some of which may be suitable for research.

I highly recommend this book.

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

Quantum Theory: A Wide Spectrum The Spectrum of Adventure: A Brief History of Interactive Fiction on the Sinclair ZX Spectrum Doctor Spectrum: Full Spectrum TPB Quantum Mechanics and Quantum Field Theory: A Mathematical Primer Towards Solid-State Quantum Repeaters: Ultrafast, Coherent Optical Control and Spin-Photon Entanglement in Charged InAs Quantum Dots (Springer Theses) Quantum Nanoelectronics: An introduction to electronic nanotechnology and quantum computing QUANTUM SELF HYPNOSIS STOP SMOKING NOW: Hypnosis Script & Inductions Included! (Quantum Self Hypnosis Singles Book 2) 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) Quantum Thermodynamics: Emergence of Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics) Quantum Computation and Quantum Information: 10th Anniversary Edition Open Wide! Fashion Dolls Exclusively International: Id & Price Guide to World-Wide Fashion Dolls Designing Wide Area Networks and Internetworks: A Practical Guide: A Practical Guide Wide Area Networks Wide-Area Data Network Performance Engineering Authentic And Traditional Pierogi Recipes: Discover The Simple Art of Making Pierogi at Home with A Wide Variety of Main and Desert Pierogi Recipes to Suit Every Taste. Setting Limits in the Classroom, 3rd Edition: A Complete Guide to Effective Classroom Management with a School-wide Discipline Plan International Air Band Radio Handbook: The Guide to World-Wide Air Traffic Control Wide-Open Town: A History of Queer San Francisco to 1965 THE WIDE STREETS OF TOMORROW: Essays & Speeches on Barbados, the Caribbean, and the African Diaspora

[Dmca](#)