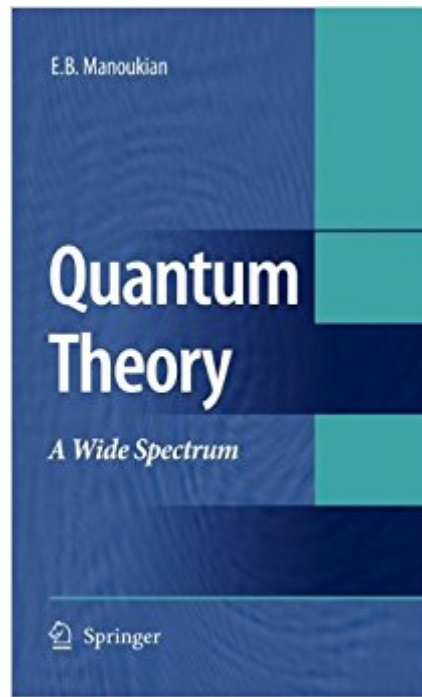


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Quantum Theory: A Wide Spectrum



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)

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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.

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