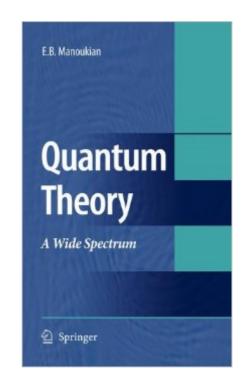
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# **Quantum Theory: A Wide Spectrum**





# 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, SchrĶdinger'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 Â 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 donâ <sup>™</sup>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 Wignerâ <sup>™</sup>s symmetry transformations, as well as supersymmetry â " Localizations, uncertainties, stability and decay of quantum systems â " Stability of the H-atom, non-relativistic Lamb shift and anomalous magnetic moment of the electron â " Measurement, interference and the role of environment â " Schrodingerâ <sup>™</sup>s cat and quantum decoherence â " Quantum teleportation and quantum cryptography - Geometric phases under non-adiabatic and non-cycling conditions â " Bellâ <sup>™</sup>s test beyond the standard â " Neutron interferometry â "Spin flip experiments â " AB effect with explicit computations â " Analytical dynamical treatment of the Stern-Gerlach experiment â " Green functions â " Path integrals and the quantum dynamical principle â " Details on the stability of matter at large and the collapse of the bosonic one â " Detailed treatment of approximating quantum systems â " Scattering theory, including detailed treatment via the Coulomb one â " Diracâ ™s formalism, spinors, helicity and relativistic equations for any mass and spin, and emergence of many-particle systems â " Intricacies of the Spin & Statistics Connection â " Mathematics and quantum techniques hard to find in the published literature â " A wealth of problems are included, some of which may be suitable for research.

#### I highly recommend this book.

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