



Quantum Theory: A Wide Spectrum

By E.B. Manoukian

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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.

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Editorial Review

Review

From the reviews:

"This book is a modern textbook covering most aspects of the theory and recent developments. The topics included in this book are useful either to graduate students in physics or researchers in this discipline and in the related fields as well. ... The book contains a lot of problems at the end of each Chapter that should be attempted by every serious reader. The book, unquestionably attractive to all those interested in Quantum Theory, is an invaluable source of material for this field." (Marian Ioan Munteanu, Zentralblatt MATH, Vol. 1126 (3), 2008)

"The content is comprehensive and the exposition is clear, albeit at a high level. There is a substantial amount of material that I have not seen covered -or covered in this depth- in other graduate level books: for example, the author's treatment of relativistic quantum equations of motion, the spin-statistics connection, the extensive discussion of the BCH relations, and more. Overall excellent." (M.P. Silverman, Trinity College, Hartford, CT, USA)

From the Back Cover

The ultimate modern textbook on Quantum Theory, this graduate-level and self-contained text is also a reference and research work which provides background for research in this discipline, covering important recent developments and most aspects of the theory with fairly detailed presentations.

In addition to traditional topics, it includes: selective measurements, Wigner's Theorem of symmetry transformations, generators of quantum transformations, supersymmetry, details on the spectra of Hamiltonians and stability of quantum systems, Bose-Fermi oscillators, coherent states, hyperfine structure of the H-atom for any angular momentum, the non-relativistic Lamb shift, anomalous magnetic moment of the electron, Ramsey oscillatory fields methods, measurement, interference and the role of the environment, the AB effect, geometric phases (including the nonadiabatic and noncyclic), Schrödinger's cat and quantum decoherence, quantum teleportation and cryptography, quantum dynamics of the Stern-Gerlach effect, Green functions, path integrals, including constrained dynamics, quantum dynamical principle and variations, systematics of multi-electron atoms, stability of matter, collapse of "bosonic matter" and the role of spin, intricacies of scattering, quantum description of relativistic particles for any spin and mass, spinors, helicity, the Spin & Statistics Theorem.

In addition it contains numerous problems, some of which are challenging enough for research.

Audience:

Instructors and graduate students in Physics, researchers and professional scientists in Theoretical Physics.

About the Author

Professor Dr. Edouard B. Manoukian did his graduate studies at McGill and at the University of Toronto in Canada, receiving his M.Sc. and Ph.D. degrees in 1968 and 1971, respectively. He carried out research at the Theoretical Physics Institute of the University of Alberta, the Dublin Institute for Advanced Studies, and the Centre de Recherches Mathématiques Appliquées of the University of Montreal. In 1978 he joined the staff

of the Department of National Defence of the Royal Military College of Canada and was appointed as a full professor in 1985. Presently E.B. Manoukian is a professor in the School of Physics of the Suranaree University of Technology. He has authored several books including the one entitled "Renormalization" (ISBN: 0124694500, New York: Academic Press, 1983) which may be of interest to readers of the present book, and he has published over 160 research papers on most aspects of theoretical physics.

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Marjorie Ishee:

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