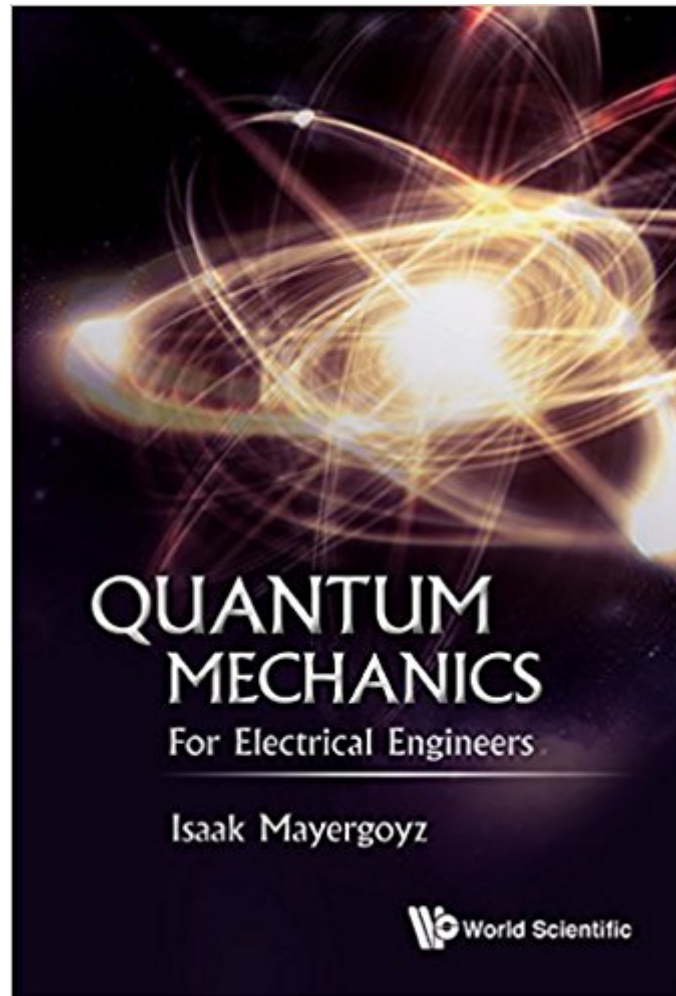




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Quantum Mechanics: For Electrical Engineers



Synopsis

The book is designed for a one-semester graduate course in quantum mechanics for electrical engineers. It can also be used for teaching quantum mechanics to graduate students in materials science and engineering departments as well as to applied physicists. The selection of topics in the book is based on their relevance to engineering applications. The book provides the theoretical foundation for graduate courses in quantum optics and lasers, semiconductor electronics, applied superconductivity and quantum computing. It covers (along with traditional subjects) the following topics: resonant and Josephson tunneling; Landau levels and their relation to the integer quantum Hall effect; effective mass Schrodinger equation and semi-classical transport; quantum transitions in two-level systems; Berry phase and Berry curvature; density matrix and optical Bloch equation for two-level systems; Wigner function and quantum transport; exchange interaction and spintronic.

Book Information

Hardcover: 301 pages

Publisher: World Scientific Publishing Company (September 23, 2016)

Language: English

ISBN-10: 9813146907

ISBN-13: 978-9813146907

Product Dimensions: 6 x 0.9 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

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