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Rapid advances in quantum optics, atomic physics, particle physics and other areas have been driven by fantastic progress in instrumentation (especially lasers) and computing technology as well as by the ever-increasing emphasis on symmetry and information concepts-requiring that all physicists receive a thorough grounding in quantum mechanics. This book provides a carefully structured and complete exposition of quantum mechanics and illustrates the common threads linking many different phenomena and subfields of physics.

"[This book] is intended to be a comprehensive introduction to the principles of quantum mechanics and to their application in a variety of fields to which physicists turn." --Preface.

Feagin's book was the first publication dealing with Quantum Mechanics using Mathematica, the popular software distributed by Wolfram Research, and designed to facilitate scientists and engineers to do difficult scientific computations more quickly and more easily. Quantum Methods with Mathematica, the first book of ist kind, has achieved worldwide success and critical acclaim.

If you need a book that relates the core principles of quantum mechanics to modern applications in engineering, physics, and nanotechnology, this is it. Students will appreciate the book's applied emphasis, which illustrates theoretical concepts with examples of nanostructured materials, optics, and semiconductor devices. The many worked examples and more than 160 homework problems help students to problem solve and to practise applications of theory. Without assuming a prior knowledge of high-level physics or classical mechanics, the text introduces Schrödinger's equation, operators, and approximation methods. Systems, including the hydrogen atom and crystalline materials, are analyzed in detail. More advanced subjects, such as density matrices, quantum optics, and quantum information, are also covered. Practical applications and algorithms for the computational analysis of simple structures make this an ideal introduction to quantum mechanics for students of engineering, physics, nanotechnology, and other disciplines. Additional resources available from www.cambridge.org/9780521897839.

Foundations of Quantum Mechanics is written in simple and elegant style. Mathematical derivations are presented in complete detail with a lucid discussion of their physical significance. Symmetries inherent in quantum systems are brought out in a lucid wa

This computer-based laboratory manual contains experiments in mechanics, thermodynamics, E&M, and optics using hardware and software designed to enhance readers' understanding of calculus-based physics concepts. The manual makes use of an active learning cycle, including concept overviews, hypothesis-testing, prediction-making, and investigations.

This book presents a basic introduction to quantum mechanics. Depending on the choice of topics, it can be used for a one-semester or two-semester course. An attempt has been made to anticipate the conceptual problems students encounter when they first study quantum mechanics. Wherever possible, examples are given to illustrate the underlying physics associated with the mathematical equations of quantum mechanics. To this end, connections are made with corresponding phenomena in classical mechanics and electromagnetism. The problems at the end of each chapter are intended to help students master the course material and to explore more advanced topics. Many calculations exploit the extraordinary capabilities of computer programs such as Mathematica, MatLab, and Maple. Students are urged to use these programs, just as they had been urged to use calculators in the past. The treatment of various topics is rather complete, in that most steps in derivations are included. Several of the chapters go beyond what is traditionally covered in an introductory course. The goal of the presentation is to provide the students with a solid background in quantum mechanics.

Quantum mechanics is a subject that has captured the imagination of a surprisingly broad range of thinkers, including many philosophers of science. Quantum field theory, however, is a subject that has been discussed mostly by physicists. This is the first book to present quantum field theory in a manner that makes it accessible to philosophers. Because it presents a lucid view of the theory and debates that surround the theory, An Interpretive Introduction to Quantum Field Theory will interest students of physics as well as students of philosophy. Paul Teller presents the basic ideas of quantum field theory in a way that is understandable to readers who are familiar with non-relativistic quantum mechanics. He provides information about the physics of the theory without calculational detail, and he enlightens readers on how to think about the theory physically. Along the way, he dismantles some popular myths and clarifies the novel ways in which quantum field theory is both a theory about fields and about particles. His goal is to raise questions about the philosophical implications of the theory and to offer some tentative interpretive views of his own. This provocative and thoughtful book challenges philosophers to extend their thinking beyond the realm of quantum mechanics and it challenges physicists to consider the philosophical issues that their explorations have encouraged.

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