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problems, and so they decided to combine them into a large book (on the basis of the Kogan-Galitski short book published 20 years prior) to cover all key aspects of quantum physics.

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Full text of "Problems in Quantum Mechanics"

Whereas to most physicists the possibility of a classical reinterpretation of quantum mechanics remains remote and perhaps irrelevant to current problems, a minority have kept the issue alive throughout this period. (See Freistadt [5] for a review of the problem and a comprehensive bibliography up to 1957.)

The Problem of Hidden Variables in Quantum Mechanics ...

Quantum mechanics, science dealing with the behavior of matter and light on the atomic and subatomic scale. It attempts to describe and account for the properties of molecules and atoms and their constituents—electrons, protons, neutrons, and other more esoteric particles such as quarks and gluons.

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Intended for advanced undergraduates and graduate students in mathematics, physics, and chemistry, this work teaches problem-solving using the theory of special functions. The concise treatment presents the theory methodically and in detail to a wide variety of problems in atomic and molecular...

This book presents a large collection of problems in Quantum Mechanics that are solvable within a limited time and using simple mathematics. The problems test both the student's understanding of each topic and their ability to apply this understanding concretely. Solutions to the problems are provided in detail, eliminating only the simplest steps. No problem has been included that requires knowledge of mathematical methods not covered in standard courses, such as Fuchsian differential equations. The book is in particular designed to assist all students who are preparing for written examinations in Quantum Mechanics, but will also be very useful for teachers who have to pose problems to their students in lessons and examinations.

"A topical and timely useful textbook dealing with the practical aspects of quantum mechanics, including discussions on a broad range of topics including recent technological developments in superconducting Josephson junctions, atomic cavities, lasers, gated quantum dots, optical measurements, non-linear optics, spintronic devices, etc."--

"Problem Solving in Theoretical Physics" helps students mastering their theoretical physics courses by posing advanced problems and providing their solutions - along with discussions of their physical significance and

possibilities for generalization and transfer to other fields.

This book provides the reader with a contemporary and comprehensive introduction to Quantum Mechanics. It is suitable for beginners as well as for more advanced university students. Quantum mechanics is presented in a pedagogical fashion, with a clear logical organization. The various concepts and methods are introduced first in elementary terms, and later developed into more precise formulations. Systematic studies of approximation methods and the discussion of a wide class of physical applications follow. Part I of the book, together with the opening sections of Part II, provide adequate material for an introductory course of one semester at most universities. The rest of the book might be used in an advanced course on Quantum Mechanics. The basic material is fairly standard, even though some discussions such as those on general systems with time-dependent Hamiltonians, on metastable systems, as well as the discussions in some of the Complement sections, may not be found in other textbooks. The book also contains many original observations or new ways of illustrating even well-known subjects. In fact, the authors wish to convey in this book the sense of wonder in the logical simplicity and at the same time the beauty of subtle and far-reaching consequences of Quantum Mechanics, to young physics students in particular. Problem sets are provided at the end of each chapter, to be solved either analytically or by numerical methods. The solutions to both types of problems are given as separate pdf files or as Mathematica notebooks (there are 88 of them), all together on a CD accompanying the textbook. The presence of such a collection of numerical analyses enriches the main text and is one of the characteristic features of the book. With the many interesting systems discussed, the book will also be a useful reference for researchers and teachers. It provides the reader with a unique, enjoyable and rather complete textbook of Quantum Mechanics, destined to set a new standard for many years to come.

This book gives a detailed and up-to-date overview of the linearized augmented cylindrical wave (LACW) technique for nanotubes and nanowires. The author presents the mathematical foundations together with numerous applications. Method for calculating the electronic structure of point impurities, which is based on a combination of the LACW and Green's functions techniques, is presented. The book clearly demonstrates how the relativistic effects can be incorporated into LACW approach and how the spin-orbit coupling effects change the tubules band structure. Extensive illustrations of application to the inorganic nanotubes and nanowires make the book essential reading in this field above all.

It is notoriously difficult to come up with a new quantum-mechanical problem that would be solvable with a pencil and paper within a finite amount of time and that would provide a useful insight into the fascinating world of quantum physics. Any person who has taught quantum mechanics is certainly aware that there is a lack of such solvable problems in quantum mechanics. In fact, it is exactly this deficit of illuminating examples and practical exercises that make learning and teaching quantum physics so complicated. It is very difficult to understand fundamentally new concepts without real-life examples. Despite this difficulty, this book remarkably presents some 700+ problems in quantum mechanics together with solutions. They are largely new to the English-speaking audience. The problems have been collected over about 60 years, first by the lead author, the late Prof. Victor Galitski, Sr. Over the years, new problems were added and the material polished by Prof. Karnakov. Finally, the translator Prof. Victor Galitski, Jr, has edited the material for the modern English-speaking audience and extended it with new problems particularly relevant to modern science.

This slim volume covers the traditional parts of quantum mechanics: semiclassical theories of radiation and scattering, a number of advanced problems: Feynman diagrams and relativistic quantum mechanics and a collection of modern items: superfluidity and high-temperature superconductivity. The book begins with the description of the basic principles of mechanics, electrodynamics and quantum mechanics, which are needed for understanding the subsequent chapters. Qualitative methods (analytical properties and paradoxes in quantum mechanics) are also introduced. This useful textbook also pairs the problems with their solutions.

Quantum gravity is the field of theoretical physics attempting to unify the theory of quantum mechanics, which describes three of the fundamental forces of nature, with general relativity, the theory of the fourth fundamental force: gravity. The ultimate goal is a unified framework for all fundamental forces -- a theory of everything. This book examines state-of-art research in this field.

A broad introduction to high Tc superconductors, their parent compounds and related novel materials, covering both fundamental questions of modern solid state physics (such as correlation effects, fluctuations, unconventional symmetry of superconducting order parameter) and applied problems related to short coherence length, grain boundaries and thin films. The information that can be derived from electron spectroscopy and optical measurements is illustrated and explained in detail. Descriptions widely employ the clear, relatively simple, phenomenological Ginzburg-Landau model of complex phenomena, such as vortex physics, vortex charge determination, plasmons in superconductors, Cooper pair mass, and wetting of surfaces. The first comprehensive reviews of several novel classes of materials are presented, including borocarbides and chain cuprates.

In its original form, this widely acclaimed primer on the fundamentals of quantized semiconductor structures was published as an introductory chapter in Raymond Dingle's edited volume (24) of Semiconductors and Semimetals. Having already been praised by reviewers for its excellent coverage, this material is now available in an updated and expanded "student edition." This work promises to become a standard reference in the field. It covers the basics of electronic states as well as the fundamentals of optical interactions and quantum transport in two-dimensional quantized systems. This revised student edition also includes entirely new sections discussing applications and one-dimensional and zero-dimensional systems. Available for the first time in a new, expanded version Provides a concise introduction to the fundamentals and fascinating applications of quantized semiconductor structures

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