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Three-body problem - Wikipedia

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160 lucidly expressed problems in nonrelativistic quantum mechanics plus completely worked-out solutions. Some were drawn from the authors' courses at the Moscow Institute of Engineering, but most were prepared especially for this book. A high-level supplement rather than a primary text, it constitutes a masterful complement to advanced undergraduate and graduate texts and courses in quantum mechanics. The mathematics employed in the proofs of the problems—asymptotic expansions of functions, Green's functions, use of different representation spaces, and simple limiting cases—are detailed and comprehensive. Virtually no space is devoted to the physical statements underlying the problems, since this is usually covered in books on quantum mechanics. Teachers and students will find this volume particularly valuable in terms of its advanced mathematics and detailed presentations, its coverage of scattering theory, and its helpful graphs and explanatory figures.

Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials.

The Quantum Mechanical Three-Body Problem deals with the three-body problem in quantum mechanics. Topics include the two- and three-particle problem, the Faddeev equations and their solution, separable potentials, and variational methods. This book has eight chapters; the first of which introduces the reader to the quantum mechanical three-body problem, its difficulties, and its importance in nuclear physics. Scattering experiments with three-particle breakup are presented. Attention then turns to some concepts of quantum mechanics, with emphasis on two-particle scattering and the Hamiltonian for three particles. The chapters that follow are devoted to the Faddeev equations, including those for scattering states and transition operators, and how such equations can be solved in practice. The solution of the Faddeev equations for separable potentials and local potentials is presented, along with the use of Padé approximation to solve the Faddeev equations. This book concludes with an appraisal of variational methods for bound states, elastic and rearrangement scattering, and the breakup reaction. A promising variational method for solving the Faddeev equations is described. This book will be of value to students interested in three-particle physics and to experimentalists who want to understand better how the theoretical data are derived.

Geared toward upper-level undergraduates and graduate students, this self-contained first course in quantum mechanics covers basic theory and selected applications and includes numerous problems of varying difficulty. 1992 edition.

A clear and accessible introduction to theory and applications of quantum mechanics for junior/senior undergraduate students of physics.

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together with their solutions. Most of the problems have been tested in class. The degree of difficulty varies from very simple to research-level. The problems illustrate certain aspects of quantum mechanics and enable the students to learn new concepts, as well as providing practice in problem solving. The book may be used as an adjunct to any of the numerous books on quantum mechanics and should provide students with a means of testing themselves on problems of varying degrees of difficulty. It will be useful to students in an introductory course if they attempt the simpler problems. The more difficult problems should prove challenging to graduate students and may enable them to enjoy problems at the forefront of quantum mechanics.

Single-volume account of methods used in dealing with the many-body problem and the resulting physics. Single-particle approximations, second quantization, many-body perturbation theory, Fermi fluids, superconductivity, many-boson systems, more. Each chapter contains well-chosen problems. Only prerequisite is basic understanding of elementary quantum mechanics. 1967 edition.

Advanced Quantum Theory is a concised, comprehensive, well-organized text based on the techniques used in theoretical elementary particle physics and extended to other branches of modern physics as well. While it is especially valuable reading for students and professors of physics, a less cursory survey should aid the nonspecialist in mastering the principles and calculational tools that probe the quantum nature of the fundamental forces. The initial application is to nonrelativistic scattering graphs encountered in atomic, solid state, and nuclear physics. Then, focusing on relativistic Feynman Diagrams and their construction in lowest order — applied to electromagnetic, strong, weak, and gravitational interactions — this bestseller also covers relativistic quantum theory based on group theoretical language, scattering theory, and finite parts of higher order graphs. This new edition includes two chapters on the quark model at low energies.

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