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elements of quantum mechanics

spread over 16 chapters this book gives a comprehensive introduction to the fundamental postulates and the mathematical formalism of quantum mechanics it spells the rules that facilitate translation of abstract mathematical information into physical terms to enable students understand the emergence of particle property in all quantum objects with the right balance of theory and problems this book gives an insight to the conceptual framework of quantum systems which shaped our understanding of the physical universe and its evolution through the years there are numerous worked out examples and practice exercises to help students gain sufficient proficiency

this book was inspired by the general observation that the great theories of modern physics are based on simple and transparent underlying mathematical structures a fact not usually emphasized in standard physics textbooks which makes it easy for mathematicians to understand their basic features it is a textbook on quantum theory intended for advanced undergraduate or graduate students mathematics students interested in modern physics and physics students who are interested in the mathematical background of physics and are dissatisfied with the level of rigor in standard physics courses more generally it offers a valuable resource for all mathematicians interested in modern physics and all physicists looking for a higher degree of mathematical precision with regard to the basic concepts in their field

this unique textbook presents a novel axiomatic pedagogical path from classical to quantum physics readers are introduced to the description of classical mechanics which rests on euler s and helmholtz s rather than newton s or hamilton s representations special attention is given to the common attributes rather than to the differences between classical and quantum mechanics readers will also learn about schrödinger s forgotten demands on quantization his equation einstein s idea of quantization as selection problem the schrödinger equation is derived without any assumptions about the nature of quantum systems such as interference and superposition or the existence of a quantum of action \hbar the use of the classical expressions for the potential and kinetic energies within quantum physics is justified key features presents extensive reference to original texts includes many details that do not enter contemporary representations of classical mechanics although these details are essential for understanding quantum physics contains a simple level of mathematics which is seldom higher than that of the common riemannian integral brings information about important scientists carefully

introduces basic equations notations and quantities in simple steps this book addresses the needs of physics students teachers and historians with its simple easy to understand presentation and comprehensive approach to both classical and quantum mechanics

this well organized and comprehensive text gives an in depth study of the fundamental principles of quantum mechanics in one single volume appropriate for the postgraduate courses the book deals with both relativistic and non relativistic quantum mechanics the distinguishing features of the text are its logical and systematic coverage of the fundamental principles and the applications of the theory besides presentation of examples from the areas of atomic and molecular physics solid state physics and nuclear physics the mathematical treatment is rigorous and thorough and the text is supplemented with numerous problems with hints provided for the difficult ones these features make the text handy for self study as well as for teaching

this book investigates two possibilities for describing classical mechanical physical systems along with their hamiltonian dynamics in the framework of quantum mechanics the first possibility consists in exploiting the geometrical properties of the set of quantum pure states of microsystems and of the lie groups characterizing the specific classical system the second approach is to consider quantal systems of a large number of interacting subsystems i e macrosystems so as to study the quantum mechanics of an infinite number of degrees of freedom and to look for the behaviour of their collective variables the final chapter contains some solvable models of quantum measurement describing dynamical transitions from microsystems to macrosystems

this book presents a comprehensive course of quantum mechanics for undergraduate and graduate students after a brief outline of the innovative ideas that lead up to the quantum theory the book reviews properties of the schrödinger equation the quantization phenomena and the physical meaning of wave functions the book discusses in a direct and intelligible style topics of the standard quantum formalism like the dynamical operators and their expected values the heisenberg and matrix representation the approximate methods the dirac notation harmonic oscillator angular momentum and hydrogen atom the spin field and spin orbit interactions identical particles and bose einstein condensation etc special emphasis is devoted to study the tunneling phenomena transmission coefficients phase coherence energy levels splitting and related phenomena of

interest for quantum devices and heterostructures the discussion of these problems and the wkb approximation is done using the transfer matrix method introduced at a tutorial level this book is a textbook for upper undergraduate physics and electronic engineering students

this book provides quick access to quantum mechanics without dealing with a true textbook that demands proper specialized studies in physics and related mathematics for about a couple of years it consists of three parts basic formalism formal development and ontological issues the 70 figures are a crucial instrument for becoming acquainted i

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the study of atomic physics nuclear physics and solid state physics are impossible without a clear understanding of the basic concepts and formalism of quantum mechanics this book aims to promote a comprehensive understanding of the subject with illustrative examples

focusing on the principles of quantum mechanics this text for upper level undergraduates and graduate students introduces and resolves special physical problems with more than 100 exercises 1967 edition

quantum mechanics second edition discusses the fundamental concepts and governing principles of quantum mechanics the title details the physical ideas and the mathematical formalism of the quantum theory of the non relativistic and quasi relativistic motion of a single particle in an external field the text first covers the basic concepts and then proceeds to tackling the change of quantum states in time next the selection examines the connection between quantum mechanics and classical mechanics the book also discusses the simplest applications of quantum mechanics along with the elementary representation theory the book will be most useful to students of physics who are studying quantum mechanics the text will also serve expert quantum physicists as a reference

trieste italy 5 september 2005 and losinj croatia 7 9 september 2005

this concise treatment embraces in four parts all the main aspects of theoretical physics recent topics such as holography and quantum cryptography are included the book summarizes what a graduate student physicist working in industry or a physics teacher should master during his or her degree course it will also be useful for deepening one's insight and it adds new dimensions to understanding of these elemental concepts

this best selling classic provides a graduate level non historical modern introduction of quantum mechanical concepts the author j j sakurai was a renowned theorist in particle theory this revision by jim napolitano retains the original material and adds topics that extend the text's usefulness into the 21st century the introduction of new material and modification of existing material appears in a way that better prepares the student for the next course in quantum field theory students will still find such classic developments as neutron interferometer experiments feynman path integrals correlation measurements and bell's inequality the style and treatment of topics is now more consistent across chapters the second edition has been updated for currency and consistency across all topics and has been checked for the right amount of mathematical rigor

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