

Relativistic Quantum Mechanics

Anton Z. Capri

Relativistic Quantum Physics Tommy Ohlsson, 2011-09-22 Quantum physics and special relativity theory were two of the greatest breakthroughs in physics during the twentieth century and contributed to paradigm shifts in physics. This book combines these two discoveries to provide a complete description of the fundamentals of relativistic quantum physics, guiding the reader effortlessly from relativistic quantum mechanics to basic quantum field theory. The book gives a thorough and detailed treatment of the subject, beginning with the classification of particles, the Klein–Gordon equation and the Dirac equation. It then moves on to the canonical quantization procedure of the Klein–Gordon, Dirac and electromagnetic fields. Classical Yang–Mills theory, the LSZ formalism, perturbation theory, elementary processes in QED are introduced, and regularization, renormalization and radiative corrections are explored. With exercises scattered through the text and problems at the end of most chapters, the book is ideal for advanced undergraduate and graduate students in theoretical physics.

Relativistic Quantum Mechanics. Wave Equations Walter Greiner, 2013-03-09 Relativistic Quantum Mechanics. Wave Equations concentrates mainly on the wave equations for spin-0 and spin-1/2 particles. Chapter 1 deals with the Klein-Gordon equation and its properties and applications. The chapters that follow introduce the Dirac equation, investigate its covariance properties and present various approaches to obtaining solutions. Numerous applications are discussed in detail, including the two-center Dirac equation, hole theory, CPT symmetry, Klein's paradox, and relativistic symmetry principles. Chapter 15 presents the relativistic wave equations for higher spin (Proca, Rarita-Schwinger, and Bargmann-Wigner). The extensive presentation of the mathematical tools and the 62 worked examples and problems make this a unique text for an advanced quantum mechanics course. This third edition has been slightly revised to bring the text up-to-date.

Relativistic Quantum Mechanics Paul Strange, 1998-09-17 This graduate text introduces relativistic quantum theory, emphasising its important applications in condensed matter physics. Relativistic quantum theory is the unification into a consistent theory of Einstein's theory of relativity and the quantum mechanics of Bohr, Schrödinger, and Heisenberg, etc. Beginning with basic theory, the book then describes essential topics. Many worked examples and exercises are included along with an extensive reference list. This clear account of a crucial topic in science will be valuable to graduates and researchers working in condensed matter physics and quantum physics.

Relativistic Quantum Mechanics Armin Wachter,2010-09-29 * Which problems do arise within relativistic enhancements of the Schrödinger theory, especially if one adheres to the usual one-particle interpretation? * To what extent can these problems be overcome? * What is the physical necessity of quantum field theories? In many textbooks, only insufficient answers to these fundamental questions are provided by treating the relativistic quantum mechanical one-particle concept very superficially and instead introducing field quantization as soon as possible. By contrast, this book emphasizes particularly this point of view (relativistic quantum mechanics in the "narrow sense"): it extensively discusses the relativistic one-particle view and reveals its problems and limitations, therefore illustrating the necessity of quantized fields in a physically comprehensible way. The first two chapters contain a detailed presentation and comparison of the Klein-Gordon and Dirac theory, always with a view to the non-relativistic theory. In the third chapter, we consider relativistic scattering processes and develop the Feynman rules from propagator techniques. This is where the indispensability of quantum field theory reasoning becomes apparent and basic quantum field theory concepts are introduced. This textbook addresses undergraduate and graduate Physics students who are interested in a clearly arranged and structured presentation of relativistic quantum mechanics in the narrow sense and its connection to quantum field theories. Each section contains a short summary and exercises with solutions. A mathematical appendix rounds out this excellent textbook on relativistic quantum mechanics.

Relativistic Quantum Mechanics and Quantum Fields Ta-you Wu,W.-Y. Pauchy Hwang,1991 A sequel to the well received book, Quantum Mechanics by T Y Wu, this book carries on where the earlier volume ends. This present volume follows the generally pedagogic style of Quantum Mechanics. The scope ranges from relativistic quantum mechanics to an introduction to quantum field theory with quantum electrodynamics as the basic example and ends with an exposition of important issues related to the standard model. The book presents the subject in basic and easy-to-grasp notions which will enhance the purpose of this book as a useful textbook in the area of relativistic quantum mechanics and quantum electrodynamics.

Relativistic Quantum Mechanics Hartmut Pilkuhn,2013-06-29 In this book, quantum mechanics is developed from the outset on a relativistic basis, using the superposition principle, Lorentz invariance and gauge invariance. Nonrelativistic quantum mechanics appears as a special case, and classical relativistic mechanics as another one. These special cases are important for giving plausible names to operators, for example orbital angular momentum, spin or magnetic moment. A subject which is treated for the first time in this book is the theory of binaries in terms of differential equations which have

the mathematical structure of the corresponding one-body equations (Klein–Gordon for two spin- less particles, Dirac for two spinor particles).

An Introduction to Relativistic Quantum Field Theory Silvan S. Schweber, 2013-10-10 Complete, systematic, and self-contained, this text introduces modern quantum field theory. Combines thorough knowledge with a high degree of didactic ability and a delightful style. – Mathematical Reviews. 1961 edition.

Textbook of Relativistic Quantum Physics V Devanathan, 2018-06-08 RELATIVISTIC QUANTUM PHYSICS includes in its fold both Relativistic Quantum Mechanics and Quantum Field Theory. It is shown how Feynman's positron theory and Feynman diagrams have greatly simplified the calculations for various processes in Quantum Electrodynamics. Elements of Quantum Field Theory and its essential features are also presented. Neutrinos and neutrino oscillations, Gauge theories and Gauge bosons, Higgs field and Higgs bosons, spontaneous symmetry breaking and Higgs mechanism, and how the particles acquire mass by Higgs mechanism are some of the topics that are dealt with exhaustively in this book.

Relativistic Quantum Mechanics and Introduction to Quantum Field Theory Anton Z. Capri, 2002 This invaluable textbook is divided into two parts. The first part includes a detailed discussion on the discrete transformations for the Dirac equation, as well as on the central force problem for the Dirac equation. In the second part, the external field problem is examined; pair production and vacuum polarization leading to charge renormalization are treated in detail. Relativistic Quantum Mechanics and Introduction to Quantum Field Theory has arisen from a graduate course which the author taught for several years at the University of Alberta to students interested in particle physics and field theory.

Relativistic Quantum Mechanics Luciano Maiani, Omar Benhar, 2015-11-18 Written by two of the most prominent leaders in particle physics, *Relativistic Quantum Mechanics: An Introduction to Relativistic Quantum Fields* provides a classroom-tested introduction to the formal and conceptual foundations of quantum field theory. Designed for advanced undergraduate- and graduate-level physics students, the text only requires previous courses in classical mechanics, relativity, and quantum mechanics. The introductory chapters of the book summarize the theory of special relativity and its application to the classical description of the motion of a free particle and a field. The authors then explain the quantum formulation of field theory through the simple example of a scalar field described by the Klein–Gordon equation as well as its extension to the case of spin $1/2$ particles described by the Dirac equation. They also present the elements necessary for constructing the foundational theories of the standard model of electroweak

interactions, namely quantum electrodynamics and the Fermi theory of neutron beta decay. Many applications to quantum electrodynamics and weak interaction processes are thoroughly analyzed. The book also explores the timely topic of neutrino oscillations. Logically progressing from the fundamentals to recent discoveries, this textbook provides students with the essential foundation to study more advanced theoretical physics and elementary particle physics. It will help them understand the theory of electroweak interactions and gauge theories. View the second book in this collection: Electroweak Interactions.

Relativistic Quantum Mechanics and Introduction to Field Theory Francisco J. Yndurain, 2012-12-06 This advanced textbook supplies graduate students with a primer in quantum theory. A variety of processes are discussed with concepts such as potentials, classical current distributions, prescribed external fields dealt with in the framework of relativistic quantum mechanics. Then, in an introduction to field theory, the author emphasizes the deduction of the said potentials or currents. A modern presentation of the subject together with many exercises, unique in its unusual underlying concept of combining relativistic quantum mechanics with basic quantum field theory.

LSC Relativistic Quantum Mechanics James Bjorken, 1998-09-24 In this text the authors develop a propagator theory of Dirac particles, photons, and Klein-Gordon mesons and perform a series of calculations designed to illustrate various useful techniques and concepts in electromagnetic, weak, and strong interactions. These include defining and implementing the renormalization program and evaluating effects of radiative corrections, such as the Lamb shift, in low-order calculations. The necessary background for the book is provided by a course in nonrelativistic quantum mechanics at the general level of Schiff's text, QUANTUM MECHANICS.

Relativistic Quantum Mechanics and Field Theory Franz Gross, 2008-07-11 An accessible, comprehensive reference to modern quantum mechanics and field theory. In surveying available books on advanced quantum mechanics and field theory, Franz Gross determined that while established books were outdated, newer titles tended to focus on recent developments and disregard the basics. Relativistic Quantum Mechanics and Field Theory fills this striking gap in the field. With a strong emphasis on applications to practical problems as well as calculations, Dr. Gross provides complete, up-to-date coverage of both elementary and advanced topics essential for a well-rounded understanding of the field. Developing the material at a level accessible even to newcomers to quantum mechanics, the book begins with topics that every physicist should know-quantization of the electromagnetic field,

relativistic one body wave equations, and the theoretical explanation of atomic decay. Subsequent chapters prepare readers for advanced work, covering such major topics as gauge theories, path integral techniques, spontaneous symmetry breaking, and an introduction to QCD, chiral symmetry, and the Standard Model. A special chapter is devoted to relativistic bound state wave equations-an important topic that is often overlooked in other books. Clear and concise throughout, *Relativistic Quantum Mechanics and Field Theory* boasts examples from atomic and nuclear physics as well as particle physics, and includes appendices with background material. It is an essential reference for anyone working in quantum mechanics today.

Relativistic and Non-Relativistic Quantum Mechanics Luis Grave de Peralta,

Advanced Molecular Quantum Mechanics R. Moss, 2012-12-06 This book is primarily intended for graduate chemists and chemical physicists. Indeed, it is based on a graduate course that I give in the Chemistry Department of Southampton University. Nowadays undergraduate chemistry courses usually include an introduction to quantum mechanics with particular reference to molecular properties and there are a number of excellent textbooks aimed specifically at undergraduate chemists. In valence theory and molecular spectroscopy physical concepts are often encountered that are normally taken on trust. For example, electron spin and the anomalous magnetic moment of the electron are usually accepted as postulates, although they are well understood by physicists. In addition, the advent of new techniques has led to experimental situations that can only be accounted for adequately by relatively sophisticated physical theory. Relativistic corrections to molecular orbital energies are needed to explain X-ray photo electron spectra, while the use of lasers can give rise to multiphoton transitions, which are not easy to understand using the classical theory of radiation. Of course, the relevant equations may be extracted from the literature, but, if the underlying physics is not understood, this is a practice that is at best dissatisfying and at worst dangerous. One instance where great care must be taken is in the use of spectroscopically determined parameters to test the accuracy of electronic wave functions.

Relativistic Quantum Chemistry Markus Reiher, Alexander Wolf, 2009-05-13 Written by two researchers in the field, this book is a reference to explain the principles and fundamentals in a self-contained, complete and consistent way. Much attention is paid to the didactical value, with the chapters interconnected and based on each other. From the contents: * Fundamentals * Relativistic Theory of a Free Electron: Dirac's \hat{H}_0 Equation * Dirac Theory of a Single Electron in a Central Potential * Many-Electron Theory I: Quantum Electrodynamics * Many-Electron Theory II: Dirac-Hartree-Fock

Theory * Elimination of the Small Component * Unitary Transformation Schemes * Relativistic Density Functional Theory * Physical Observables and Molecular Properties * Interpretive Approach to Relativistic Quantum Chemistry From beginning to end, the authors deduce all the concepts and rules, such that readers are able to understand the fundamentals and principles behind the theory. Essential reading for theoretical chemists and physicists.

Relativistic Quantum Mechanics of Leptons and Fields W.T. Grandy,2012-12-06 The material contained in this work concerns relativistic quantum mechanics, and as such pertains to classical fields. On the one hand it is meant to serve as a text on the subject, a desire stemming from the author's fruitless searches for an adequate, up-to-date reference when lecturing on these topics. At times the supplementary material was found to exceed by far that in the assigned text. On the other hand, there is some flavor of a monograph to what follows, most particularly in the later chapters, for a major goal is to demonstrate just how far we can advance our understanding of the behavior of stable particles and their interactions without introducing quantized fields. Those wishing to describe the world in this way may view the result as a point of departure, despite the fact that their wish remains unfulfilled. Confirmed quantum-field theorists, however, will doubtless view it as a summary of just why they feel compelled to quantize the fields. Approximately half the book is devoted to the single-particle Dirac equation and its solutions. A great deal of detail is provided in this respect, and the discussion is reasonably comprehensive. The Dirac equation is extraordinarily important in its own right, particularly as a basis for quantum electrodynamics (QED), and is thus worthy of extensive study.

Non-Relativistic Quantum Theory Kai S Lam,2009-08-24 This textbook is mainly for physics students at the advanced undergraduate and beginning graduate levels, especially those with a theoretical inclination. Its chief purpose is to give a systematic introduction to the main ingredients of the fundamentals of quantum theory, with special emphasis on those aspects of group theory (spacetime and permutational symmetries and group representations) and differential geometry (geometrical phases, topological quantum numbers, and Chern–Simons Theory) that are relevant in modern developments of the subject. It will provide students with an overview of key elements of the theory, as well as a solid preparation in calculational techniques.

Relativistic Quantum Mechanics and Quantum Fields W-Y Pauchy Hwang,Ta-You Wu,2018-04-26

Relativistic Quantum Mechanics Lawrence P. Horwitz,2015-08-04 This book describes a relativistic quantum theory developed by the author starting

from the E.C.G. Stueckelberg approach proposed in the early 40s. In this framework a universal invariant evolution parameter (corresponding to the time originally postulated by Newton) is introduced to describe dynamical evolution. This theory is able to provide solutions for some of the fundamental problems encountered in early attempts to construct a relativistic quantum theory. A relativistically covariant construction is given for which particle spins and angular momenta can be combined through the usual rotation group Clebsch-Gordan coefficients. Solutions are defined for both the classical and quantum two body bound state and scattering problems. The recently developed quantum Lax-Phillips theory of semi group evolution of resonant states is described. The experiment of Lindner and coworkers on interference in time is discussed showing how the property of coherence in time provides a simple understanding of the results. The full gauge invariance of the Stueckelberg-Schroedinger equation results in a 5D generalization of the usual gauge theories. A description of this structure and some of its consequences for both Abelian and non-Abelian fields are discussed. A review of the basic foundations of relativistic classical and quantum statistical mechanics is also given. The Bekenstein-Sanders construction for imbedding Milgrom's theory of modified spacetime structure into general relativity as an alternative to dark matter is also studied.

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Table of Contents Relativistic Quantum Mechanics

1. Understanding the eBook Relativistic Quantum Mechanics
 - The Rise of Digital Reading Relativistic Quantum Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Relativistic Quantum Mechanics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
3. Choosing the Right eBook Platform
 - Determining Your Reading Goals
 - Popular eBook Platforms
 - Features to Look for in an Relativistic Quantum Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Relativistic Quantum Mechanics
 - Personalized Recommendations

-
- Relativistic Quantum Mechanics User Reviews and Ratings
 - Relativistic Quantum Mechanics and Bestseller Lists
5. Accessing Relativistic Quantum Mechanics Free and Paid eBooks
- Relativistic Quantum Mechanics Public Domain eBooks
 - Relativistic Quantum Mechanics eBook Subscription Services
 - Relativistic Quantum Mechanics Budget-Friendly Options
6. Navigating Relativistic Quantum Mechanics eBook Formats
- ePub, PDF, MOBI, and More
 - Relativistic Quantum Mechanics Compatibility with Devices
 - Relativistic Quantum Mechanics Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Relativistic Quantum Mechanics
 - Highlighting and Note-Taking Relativistic Quantum Mechanics
 - Interactive Elements Relativistic Quantum Mechanics
8. Staying Engaged with Relativistic Quantum Mechanics
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Relativistic Quantum Mechanics
9. Balancing eBooks and Physical Books Relativistic Quantum
- Mechanics
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Relativistic Quantum Mechanics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Relativistic Quantum Mechanics
- Setting Reading Goals Relativistic Quantum Mechanics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Relativistic Quantum Mechanics
- Fact-Checking eBook Content of Relativistic Quantum Mechanics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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