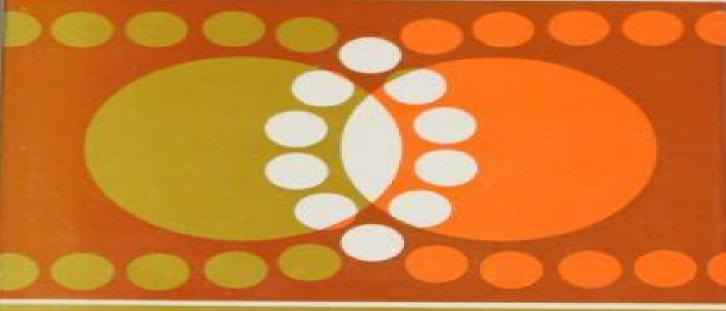
Relativistic Quantum Theory

Course of Theoretical Physics

E. M. Lifshitz and L. P. Pitaevskii



Pergamon Press

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Relativistic Theory of Atoms and Molecules Pekka Pyykkö,2012-12-06 **Advanced Quantum Theory (Third** Edition) Michael D Scadron, 2006-11-29 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 guark model at low energies Muon Physics Vernon Hughes, 2012-12-02 Muon Physics Volume I Electromagnetic Interactions deals with the electromagnetic interaction of muon as well as its static properties. The validity tests of quantum electrodynamics QED in the simple muonic system such as muonium muonic hydrogen and heavier muonic atoms are discussed Possible tests of QED at much higher energy and large momentum transfers are also considered An explanation of the unified gauge theories of electromagnetic and weak interactions in very simple and easily understandable terms is included as well This volume is comprised of four chapters and begins with a historical overview of the muon from its discovery and that of and mesons to advances in understanding the vital roles played by the muon in almost every field of physics. The next chapter explores the electromagnetic properties of the muon and looks at experimental and theoretical developments concerning its static properties and electromagnetic interactions The third chapter is concerned with the physics of the muonic atom and describes experimental methods for investigating the production of muonic atoms charge distribution in spherical nuclei the density of electrons in the atom electric quadrupole and magnetic dipole interactions between the muon and the nucleus and intensities of muonic transitions. The final chapter is devoted to cosmic ray muons and emphasizes the character of very high energy nucleon nucleon interactions together with the properties of the electromagnetic and weak interactions at very high energies This book is written primarily for physicists as well as students and researchers in physics Advances in Atomic and Molecular Physics ,1988-06-15 Advances in Atomic and Molecular Physics Advances in Quantum Chemistry ,1986-09-08 Advances in Quantum Chemistry The Physics of Graphene Mikhail I. Katsnelson, 2020-03-19 Leading graphene research theorist Mikhail I Katsnelson systematically presents the basic concepts of graphene physics in this fully revised second edition The author illustrates and explains basic concepts such as Berry phase scaling Zitterbewegung Kubo Landauer and Mori formalisms in quantum kinetics chirality plasmons commensurate incommensurate transitions and many others Open issues and unsolved problems introduce the reader to the latest developments in the field New achievements

and topics presented include the basic concepts of Van der Waals heterostructures many body physics of graphene electronic optics of Dirac electrons hydrodynamics of electron liquid and the mechanical properties of one atom thick membranes Building on an undergraduate level knowledge of quantum and statistical physics and solid state theory this is an important graduate textbook for students in nanoscience nanotechnology and condensed matter For physicists and material scientists working in related areas this is an excellent introduction to the fast growing field of graphene science I. Katsnelson, 2012-04-05 Graphene is the thinnest known material a sheet of carbon atoms arranged in hexagonal cells a single atom thick and yet stronger than diamond It has potentially significant applications in nanotechnology beyond silicon electronics solid state realization of high energy phenomena and as a prototype membrane which could revolutionise soft matter and 2D physics In this book leading graphene research theorist Mikhail Katsnelson presents the basic concepts of graphene physics Topics covered include Berry phase topologically protected zero modes Klein tunneling vacuum reconstruction near supercritical charges and deformation induced gauge fields. The book also introduces the theory of flexible membranes relevant to graphene physics and discusses electronic transport optical properties magnetism and spintronics Standard undergraduate level knowledge of quantum and statistical physics and solid state theory is assumed This is an important textbook for graduate students in nanoscience and nanotechnology and an excellent introduction for physicists and materials science researchers working in related areas Modern trends in Superconductivity and **Superfluidity** M. Yu. Kagan, 2013-12-11 This book concisely presents the latest trends in the physics of superconductivity and superfluidity and magnetism in novel systems as well as the problem of BCS BEC crossover in ultracold quantum gases and high Tc superconductors It further illuminates the intensive exchange of ideas between these closely related fields of condensed matter physics over the last 30 years of their dynamic development. The content is based on the author's original findings obtained at the Kapitza Institute as well as advanced lecture courses he held at the Moscow Engineering Physical Institute Amsterdam University Loughborough University and LPTMS Orsay between 1994 and 2011 In addition to the findings of his group the author discusses the most recent concepts in these fields obtained both in Russia and in the West The book consists of 16 chapters which are divided into four parts The first part describes recent developments in superfluid hydrodynamics of quantum fluids and solids including the fashionable subject of possible supersolidity in quantum crystals of 4He while the second describes BCS BEC crossover in quantum Fermi Bose gases and mixtures as well as in the underdoped states of cuprates The third part is devoted to non phonon mechanisms of superconductivity in unconventional anomalous superconductors including some important aspects of the theory of high Tc superconductivity The last part considers the anomalous normal state of novel superconductive materials and materials with colossal magnetoresistance CMR The book offers a valuable guide for senior level undergraduate students and graduate students postdoctoral and other researchers specializing in solid state and low temperature physics **Polarization Bremsstrahlung** V.N. Tsytovich, I.M.

Oiringel, 2012-12-06 This book was written by a group of authors and provides a systematic discussion of questions related to bremsstrahlung in many particle systems A number of new results have recently been obtained in this area which require a fundamental revision of the previously existing traditional concepts of bremsstrahlung This applies both to complicated atoms containing a large number of electrons and to the additional bremsstrahlung in a system of many particles forming a medium In fact the traditional approach was rigorously applicable only either to isolated structureless particles e g to the emission of an electron on a proton or to par ticles radiating in the limit of extremely high frequencies Polarization effects either polarization of an atom itself by an incident particle or polarization of the medium surrounding an atomic particle have a significant effect in the practically important optical and x ray frequency ranges and sometimes even predominate The first effect has come to be known as polarization atomic or dynamic bremsstrahlung and the second as polarization transition bremsstrahlung The au thors of this book use a single term polarization bremsstrahlung It seems that in contrast to earlier ideas on the subject bremsstrahlung during collisions of heavy incident particles with atoms is by no means small and is entirely caused by polar ization effects 50 Years Of Quarks Harald Fritzsch, Murray Gell-mann, 2015-03-11 Harald Fritzsch and Murray Gell Mann the two fathers of quantum chromodynamics look back at the events that led to the discovery and eventually acceptance of quarks as constituent particles it is always worthwhile to reminisce about those times when theoretical physicists were truly eclectic these stories are the testimony of a very active era in which theoretical and experimental discoveries rapidly chased one another Of central importance now is the understanding of the composition of our universe the dark matter and dark energy the hierarchy of masses and forces and a consistent quantum framework of unification of all forces of nature including gravity The closing contributions of the book put this venture in the context of today s high energy physics programme and make a connection to the most popular ideas in high energy physics today including supersymmetry unification and string theory CERN CourierToday it is known that the atomic nuclei are composed of smaller constituents the guarks A guark is always bound with two other guarks forming a baryon or with an antiguark forming a meson The quark model was first postulated in 1964 by Murray Gell Mann who coined the name quark from James Joyce's novel Finnegans Wake and by George Zweig who then worked at CERN In the present theory of strong interactions Quantum Chromodynamics proposed by H Fritzsch and Gell Mann in 1972 the forces that bind the quarks together are due to the exchange of eight gluons On the 50th anniversary of the quark model this invaluable volume looks back at the developments and achievements in the elementary particle physics that eventuated from that beautiful model Written by an international team of distinguished physicists each of whom have made major developments in the field the volume provides an essential overview of the present state to the academics and researchers **Finite-Temperature Field Theory** Joseph I. Kapusta, Charles Gale, 2023-07-27 Develops the basic formalism and theoretical techniques for relativistic quantum field theory at high temperature and density now Open Access Special Report Smithsonian Astrophysical Observatory, 1975

Progress in Physics, vol. 4/2009 Dmitri Rabounski Larissa Borissova, Florentin Smarandache, Larissa Borissova, Progress in Physics has been created for publications on advanced studies in theoretical and experimental physics including related themes from mathematics Advanced Quantum Theory and Its Applications Through Feynman Diagrams Michael D. Scadron, 2013-03-14 The fundamental goal of physics is an understanding of the forces of nature in their simplest and most general terms Yet the scientific method inadver tently steers us away from that course by requiring an ever finer subdivision of the problem into constituent components so that the overall objective is often obscured even to the experts The situation is most frustrating and acute for today s graduate students who must try to absorb as much general knowledge as is possible and also try to digest only a sm all fraction of the ever increasing morass of observational data or detailed theories to write a dissertation This book is based on the premise that to study a subject in depth is only half the battle the remaining struggle is to put the pieces together in a broad but comprehensive manner Accordingly the primary purpose of this text is to cut across the barriers existing between the various fields of modern physics elementary particles nuclear atomic and solid state physics gravitation and present a unified description of the quantum nature of forces encountered in each field at the level of the second year physics graduate student This unification is based on one body perturbation techniques covariantly generalized to what are now called Feynman diagrams and is formulated aS a simple but nontrivial extension of ordinary nonrelativistic one particle quantum theory Clifford Algebras and their Applications in Mathematical Physics A. Micali, R. Boudet, J. Helmstetter, 2013-03-09 This volume contains selected papers presented at the Second Workshop on Clifford Algebras and their Applications in Mathematical Physics These papers range from various algebraic and analytic aspects of Clifford algebras to applications in for example gauge fields relativity theory supersymmetry and supergravity and condensed phase physics Included is a biography and list of publications of M rio Schenberg who next to Marcel Riesz has made valuable contributions to these topics This volume will be of interest to mathematicians working in the fields of algebra geometry or special functions to physicists working on quantum mechanics or supersymmetry and to historians of mathematical physics

The Foundations of Quantum Theory Sol Wieder, 2012-12-02 The Foundations of Quantum Theory discusses the correspondence between the classical and quantum theories through the Poisson bracket commutator analogy The book is organized into three parts encompassing 12 chapters that cover topics on one and many particle systems and relativistic quantum mechanics and field theory The first part of the book discusses the developments that formed the basis for the old quantum theory and the use of classical mechanics to develop the theory of quantum mechanics This part includes considerable chapters on the formal theory of quantum mechanics and the wave mechanics in one and three dimension with an emphasis on Coulomb problem or the hydrogen atom The second part deals with the interacting particles and noninteracting indistinguishable particles and the material covered is fundamental to almost all branches of physics The third part presents the pertinent equations used to illustrate the relativistic quantum mechanics and quantum field theory This

book is of value to undergraduate physics students and to students who have background in mechanics electricity and magnetism and modern physics Practical Quantum Electrodynamics Douglas M. Gingrich, 2006-05-10 Taking a heuristic approach to relativistic quantum mechanics Practical Quantum Electrodynamics provides a complete introduction to the theory methodologies and calculations used for explaining the physical interaction of charged particles This book combines **Novel Lights Sources Beyond Free** the principles of relativity and quantum theory necessary for performing the ca Electron Lasers Andrei Korol, Andrey V. Solov'yov, 2022-06-09 This book discusses possibilities and perspectives for designing and practical realization of novel intensive gamma ray crystal based light sources that can be constructed through exposure of oriented crystals linear bent and periodically bent to beams of ultrarelativistic positrons and electrons The book shows case studies like the tunable light sources based on periodically bent crystals that can be designed with the state of the art beam facilities A special focus is given to the analysis of generation of the gamma rays because the current technologies based on particle motion in the magnetic field become inefficient or incapable to achieve the desired gamma rays intensities It is demonstrated that the intensity of radiation from crystal based light sources can be made comparable to or even higher than what is achievable in conventional synchrotrons and undulators operating although in the much lower photon energy range By exploring the coherence effects the intensity can be boosted by orders of magnitude The practical realization of such novel light sources will lead to the significant technological breakthroughs and societal impacts similar to those created earlier by the developments of lasers synchrotrons and X rays free electron lasers Readers learn about the underlying fundamental physics and familiarize with the theoretical experimental and technological advances made during last two decades in exploring various features of investigations into crystal based light sources. This research draws upon knowledge from many research fields such as material science beam physics physics of radiation solid state physics and acoustics to name but a few The authors provide a useful introduction in this emerging field to a broad readership of researchers and scientists with various backgrounds and accordingly make the book as self contained as possible General Relativity and John Archibald Wheeler Ignazio Ciufolini, Richard A. Matzner, 2010-06-22 Observational and experimental data pertaining to gravity and cosmology are changing our view of the Universe General relativity is a fundamental key for the understanding of these observations and its theory is undergoing a continuing enhancement of its intersection with observational and experimental data These data include direct observations and experiments carried out in our solar system among which there are direct gravitational wave astronomy frame dragging and tests of gravitational theories from solar system and spacecraft observations This book explores John Archibald Wheeler's seminal and enduring contributions in relativistic astrophysics and includes the General Theory of Relativity and Wheeler's influence recent developments in the confrontation of relativity with experiments the theory describing gravitational radiation and its detection in Earth based and space based interferometer detectors as well as in Earth based bar detectors the mathematical description of the initial value

problem in relativity and applications to modeling gravitational wave sources via computational relativity the phenomenon of frame dragging and its measurement by satellite observations All of these areas were of direct interest to Professor John A Wheeler and were seminally influenced by his ideas **Resonant Nonlinear Interactions of Light with Matter** Valerii S. Butylkin, Alexander E. Kaplan, Yury G. Khronopulo, Evsei I. Yakubovich, 2012-12-06 This book is devoted primarily to the various kinds of resonant nonlinear in teractions of light with two level or in many cases multilevel systems The interactions can involve one photon as well as multiphoton processes in which some combinations of frequencies of participating photons are close to tran sitions of atoms or molecules e g we consider stimulated Raman scattering SRS as a resonant interaction This approach involves a broad spectrum of problems Discussion of some of the basic phenomena as well as the pertinent theory could be found for instance in such well known books as the ones due to N Bloembergen S A Akhmanov and R V Khokhlov L Allen and J H Eberly and to V M Fain and Ya 1 Khanin The book Quantum Electronics by A Yariv could serve as an introductory guide to the subject Thus some of the basic material in the present book will already be well known to the reader who is an expert in the field There are for instance general density matrix equations two level model and basic effects associated with this model such as saturation of one photon absorption and Raby oscillations some basic multiphoton processes such as two photon absorption SRS etc

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