

# Relativistic Quantum Theory

Volume 4 of  
**Course of Theoretical Physics**  
Part 2

**E. M. Lifshitz and L. P. Pitaevskii**

*Institute of Physical Problems, USSR Academy of Sciences*



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# Relativistic Quantum Theory Volume 4 Of Course Of Theoretical Physics Part 1

**Vladimir Belyakov**



## **Relativistic Quantum Theory Volume 4 Of Course Of Theoretical Physics Part 1:**

*The Electroweak Unification Theory* Bernardo Adeva Andany, 2019-05-04 Supernovae explosion combustion of solar hydrogen to form helium heavy quark decay or nuclear beta radiation all weak interaction phenomena are not unrelated to electromagnetism but closely linked to it through the Higgs field This ebook contains a modern introduction to the electroweak unification theory as part of the so called Standard Model of particle physics Not only some of the key theoretical ideas are exposed in a precise way but also the experiments that revealed them The main highlights of the theory consolidation process are examined which concerning its experimental counterpart span over 40 years from the discovery of neutral currents in 1973 to the Higgs boson in 2012 The reader is assumed to have been introduced to Quantum Mechanics and theories based on the gauge invariance principle and to be familiar with Dirac's theory for the relativistic electron The course is specially suited for undergraduate students in physics as part of an optional subject of elementary particles The course consists in nine lectures that on the blackboard take about 90 minutes each It contains a very select collection of problems and exercises having as a connecting thread the calculation of the lifetime of elementary fermions and bosons as well as the comprehension of some experimental results of historical relevance *Course of Theoretical Physics* L. P.

Pitaevskii, E. M. Lifshitz, J. B. Sykes, 2017-12-20 The approach to physical kinetics is closely integrated with that of other branches of physics as presented in the companion volumes of this series The major part of the contents is concerned with a systematic development of the theory of plasmas the authority being firmly rooted in the pioneer work of Landau Although the main scope concerns fully ionized gaseous plasmas corresponding results are also given for partially ionized plasmas relativistic plasmas degenerate or non ideal plasmas and solid state plasmas Problems with answers are to be found in the text This work completes the Course of Theoretical Physics begun over 20 years ago *Relativistic Quantum Theory*

Vladimir Borisovich Berestetskii, Evgenii Mikhailovich Lifshitz, Lev Petrovich Pitaevskii, 1971 **Advances in**

**Theoretical Physics** Alan H. Luther, 2013-10-22 At Copenhagen in June 1988 the 80th Anniversary of the birth of L. D. Landau the much respected Soviet physicist and author of the Course on Theoretical Physics published by Pergamon Press was celebrated with an International Symposium in his honour The papers presented at that meeting are published here providing an overview of recent progress in theoretical physics covering super string theories chaos high Tc

superconductivity and biomolecules *New Trends in Quantum Systems in Chemistry and Physics* J. Maruani, Christian Minot, R. McWeeny, Y. G. Smeyers, Stephen Wilson, 2006-04-10 These two volumes collect thirty eight selected papers from the scientific contributions presented at the Fourth European Workshop on Quantum Systems in Chemistry and Physics QSCP IV held in Marly le Roi France in April 22-27 1999 A total of one hundred and fifteen scientists attended the workshop 99 from Europe and 16 from the rest of the world They discussed the state of the art new trends and future evolution of the methods and applications The workshop was held in the old town of Marly le Roi which lies to the West of Paris between the historic

centres of Saint Germain en Laye and Versailles Participants were housed at the National Youth Institute where over sixty lectures were given by leading members of the scientific community in addition over sixty posters were presented in two very animated sessions We are grateful to the oral speakers and to the poster presenters for making the workshop such an stimulating experience The social programme was also memorable and not just for the closing banquet which was held at the French Senate House We are sure that participants will long remember their visit to the Musée des Antiquités Nationales created by Napoleon III at the birthplace of Louis XIV this museum boasts one of the world finest collections of archeological artifacts The Marly le Roi workshop followed the format established at the three previous meetings organized by Prof

*Quantum Field Theory I: Basics in Mathematics and Physics* Eberhard Zeidler, 2007-04-18 This is the first volume of a modern introduction to quantum field theory which addresses both mathematicians and physicists at levels ranging from advanced undergraduate students to professional scientists The book bridges the acknowledged gap between the different languages used by mathematicians and physicists For students of mathematics the author shows that detailed knowledge of the physical background helps to motivate the mathematical subjects and to discover interesting interrelationships between quite different mathematical topics For students of physics fairly advanced mathematics is presented which goes beyond the usual curriculum in physics

Particle Interactions in High-Temperature Plasmas Oliver James Pike, 2017-08-17 This thesis makes two important contributions to plasma physics The first is the extension of the seminal theoretical works of Spitzer and Braginskii which describe the basics of particle interactions in plasma to relativistic systems Relativistic plasmas have long been studied in high energy astrophysics and are becoming increasingly attainable in the laboratory The second is the design of a new class of photon photon collider which is the first capable of detecting the Breit Wheeler process Though it offers the simplest way for light to be converted into matter the process has never been detected in the 80 years since its theoretical prediction The experimental scheme proposed here exploits the radiation used in inertial confinement fusion experiments and could in principle be implemented in one of several current generation facilities

*Theoretical Concepts of Quantum Mechanics* Mohammad Reza Pahlavani, 2012-02-24 Quantum theory as a scientific revolution profoundly influenced human thought about the universe and governed forces of nature Perhaps the historical development of quantum mechanics mimics the history of human scientific struggles from their beginning This book which brought together an international community of invited authors represents a rich account of foundation scientific history of quantum mechanics relativistic quantum mechanics and field theory and different methods to solve the Schrodinger equation We wish for this collected volume to become an important reference for students and researchers

**The Birth of String Theory** Andrea Capparelli, Elena Castellani, Filippo Colomo, Paolo Di Vecchia, 2012-04-12 Explores the early stages of the development of string theory essential reading for physicists historians and philosophers of science

*Diffraction Optics of Complex-Structured Periodic Media* Vladimir Belyakov, 2019-08-02 This book presents recent theoretical and experimental results of localized

optical modes and low threshold lasing in spiral photonic media Efficient applications of localized modes for low threshold lasing at the frequencies of localized modes are a central topic of the book's new chapters Attention is paid to the analytical approach to the problem The book focuses on one of the most extensively studied media in this field cholesteric liquid crystals The chosen model in the absence of dielectric interfaces allows to remove the problem of polarization mixing at surfaces layers and defect structures It allows to reduce the corresponding equations to the equations for light of diffracting polarization only The problem concentrates then on the edge and defect optical modes The possibility to reduce the lasing threshold due to an anomalously strong absorption effect is presented theoretically for distributed feedback lasing It is shown that a minimum of the threshold pumping wave intensity can be reached for the pumping wave frequency coinciding with the localized mode frequency what can be reached for a pumping wave propagating at a certain angle to the helical axes Analytic expressions for transmission and reflection coefficients are presented In the present second edition experimental observations of theoretically revealed phenomena in spiral photonic media are discussed The main results obtained for spiral media are qualitatively valid for photonic crystals of any nature and therefore may be applied as a guide to investigations of other photonic crystals where the corresponding theory is more complicated and demands a numerical approach It is demonstrated that many optical phenomena occurring at the frequencies of localized modes reveal unusual properties which can be used for efficient applications of the corresponding phenomena efficient frequency conversion and low threshold lasing e g For the convenience of the reader an introduction is given to conventional linear and nonlinear optics of structured periodic media This book is valuable to researchers postgraduate and graduate students active in theoretical and experimental physics in the field of interaction of radiation with condensed matter

Theoretical Physics 7 Wolfgang Nolting, 2017-09-27 This textbook offers a clear and comprehensive introduction to methods and applications in quantum mechanics one of the core components of undergraduate physics courses It follows on naturally from the previous volumes in this series thus developing the understanding of quantized states further on The first part of the book introduces the quantum theory of angular momentum and approximation methods More complex themes are covered in the second part of the book which describes multiple particle systems and scattering theory Ideally suited to undergraduate students with some grounding in the basics of quantum mechanics the book is enhanced throughout with learning features such as boxed inserts and chapter summaries with key mathematical derivations highlighted to aid understanding The text is supported by numerous worked examples and end of chapter problem sets About the Theoretical Physics series Translated from the renowned and highly successful German editions the eight volumes of this series cover the complete core curriculum of theoretical physics at undergraduate level Each volume is self contained and provides all the material necessary for the individual course topic Numerous problems with detailed solutions support a deeper understanding Wolfgang Nolting is famous for his refined didactical style and has been referred to as the German Feynman in reviews *High-Power Lasers*

*and Laser Plasmas / Moshchnye Lazery I Lazernaya Plazma / Мощные Лазеры И Лазерная Плазма* N. G. Basov, 2012-12-06

A Course in Theoretical Physics P. John Shepherd, 2013-01-10 This book is a comprehensive account of five extended modules covering the key branches of twentieth century theoretical physics taught by the author over a period of three decades to students on bachelor and master university degree courses in both physics and theoretical physics The modules cover nonrelativistic quantum mechanics thermal and statistical physics many body theory classical field theory including special relativity and electromagnetism and finally relativistic quantum mechanics and gauge theories of quark and lepton interactions all presented in a single self contained volume In a number of universities much of the material covered for example on Einstein's general theory of relativity on the BCS theory of superconductivity and on the Standard Model including the theory underlying the prediction of the Higgs boson is taught in postgraduate courses to beginning PhD students A distinctive feature of the book is that full step by step mathematical proofs of all essential results are given enabling a student who has completed a high school mathematics course and the first year of a university physics degree course to understand and appreciate the derivations of very many of the most important results of twentieth century theoretical physics

**Electrodynamics of Continuous Media** L D Landau, J. S. Bell, M. J. Kearsley, L. P. Pitaevskii, E. M. Lifshitz, J. B. Sykes, 2013-10-22 Covers the theory of electromagnetic fields in matter and the theory of the macroscopic electric and magnetic properties of matter There is a considerable amount of new material particularly on the theory of the magnetic properties of matter and the theory of optical phenomena with new chapters on spatial dispersion and non linear optics The chapters on ferromagnetism and antiferromagnetism and on magnetohydrodynamics have been substantially enlarged and eight other chapters have additional sections

*Effective Medium Theory* Tuck C. Choy, 2016 This book is devoted to effective medium theory EMT It provides a solid foundation of the principles and later shows numerous applications to various fields of physics material science and applied physics and chemistry It is intended to be a useful research reference as well as a graduate student text

Course of Theoretical Physics Vol 4 Relativistic Quantum Theory Pt (1) Evgenii Mikhailovich Lifshitz, 1971

**Novel Light Sources Beyond Free 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     *The Australian Physicist* ,1972     Quantum Field Theory Lukong Cornelius Fai,2019-06-20 Choice Recommended Title February 2020 This book explores quantum field theory using the Feynman functional and diagrammatic techniques as foundations to apply Quantum Field Theory to a broad range of topics in physics This book will be of interest not only to condensed matter physicists but physicists in a range of disciplines as the techniques explored apply to high energy as well as soft matter physics Features Comprehensive and rigorous yet presents an easy to understand approach Applicable to a wide range of disciplines Accessible to those with little or basic mathematical understanding     **Light-Matter Interaction** Olaf Stenzel,2022-02-08 This book offers a didactic introduction to light matter interactions at both the classical and semi classical levels Pursuing an approach that describes the essential physics behind the functionality of any optical element it acquaints students with the broad areas of optics and photonics Its rigorous bottom up approach to the subject using model systems ranging from individual atoms and simple molecules to crystalline and amorphous solids gradually builds up the reader s familiarity and confidence with the subject matter Throughout the book the detailed mathematical treatment and examples of practical applications are accompanied by problems with worked out solutions In short the book provides the most essential information for any graduate or advanced undergraduate student wishing to begin their course of study in the field of photonics or to brush up on important concepts prior to an examination

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