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Monographs  
in Physics

Otto Nachtmann

# **Elementary Particle Physics**

Concepts and Phenomena



Springer-Verlag

# Elementary Particle Physics Concepts And Phenomena

**Alejandro Frank, Kurt B. Wolf**



## **Elementary Particle Physics Concepts And Phenomena:**

**Elementary Particle Physics** Otto Nachtmann, 2012-12-06 This book grew how could it be otherwise out of a series of lectures which the author held at the University of Heidelberg The purpose of these lectures was to give an introduction to the phenomenology of elementary particles for students both of theoretical and experimental orientation With the present book the author has set himself the same aim The reader is assumed to be familiar with ordinary nonrelativistic quantum mechanics as presented e g in the following books Quantum Mechanics by L I Schiff McGraw Hill New York 1955 Quantum Mechanics Vol I by K Gottfried W A Benjamin Reading Ma 1966 The setup of the present book is as follows In the first part we present some basic general principles and concepts which are used in elementary particle physics The reader is supposed to learn here the language of particle physics An introductory chapter deals with special relativity of such fundamental importance for particle physics which most of the time is high energy i e highly relativistic physics Further chapters of this first part deal with the Dirac equation with the theory of quantized fields and with the general definitions of the scattering and transition matrices and the cross sections

**Elementary Particles and Their Interactions** Quang Ho-Kim, Xuan-Yem Pham, 1998-09-08 The first part of this two part work is intended as an introduction to the fundamentals while the second part discusses applications from the point of view of the researcher Lively illustrations and informative tables an overview at the beginning of each chapter and exercises with solutions make this book a valuable resource

**Scattering Theory of Classical and Quantum N-Particle Systems** Jan Dereziński, Christian Gerard, 2013-03-09 This monograph addresses researchers and students It is a modern presentation of time dependent methods for studying problems of scattering theory in the classical and quantum mechanics of N particle systems Particular attention is paid to long range potentials For a large class of interactions the existence of the asymptotic velocity and the asymptotic completeness of the wave operators is shown The book is self contained and explains in detail concepts that deepen the understanding As a special feature of the book the beautiful analogy between classical and quantum scattering theory e g for N body Hamiltonians is presented with deep insight into the physical and mathematical problems

*Fields, Symmetries, and Quarks* Ulrich Mosel, 2013-03-14 This revised and extended edition of the book *Fields Symmetries and Quarks* originally published by McGraw Hill Book Company Hamburg 1989 contains a new chapter on electroweak interactions which has also grown out of lectures that I have given in the meantime In addition a number of changes mainly in the metric used in the discussion of the theory of strong interactions QCD and in the chapter on hadron physics have been made and errors have been corrected The motivation for this book however is still the same as it was 10 years ago This is a book on quantum field theory and our present understanding of leptons and hadrons for advanced students and the non specialists and in particular the experimentalists working on problems of nuclear and hadron physics I am grateful to Dr S Leupold for a very careful reading of the revised manuscript many corrections and helpful suggestions and to C Traxler for producing the figures and for constructive discussions

**Advanced Concepts in Particle and Field Theory** Tristan Hübsch, 2023-02-09 This 2015 advanced textbook now OA provides students with a unified understanding of all matter at a fundamental level

**Relativistic Quantum Mechanics and Introduction to Field Theory** Francisco J. Yndurain, 2012-12-06 A fully relativistic treatment of the quantum mechanics of particles requires the introduction of quantum field theory that is to say the quantum mechanics of systems with an infinite number of degrees of freedom This is because the relativistic equivalence of mass and energy plus the quantum possibility of fluctuations imply the existence of real or virtual creation and annihilation of particles in unlimited numbers In spite of this there exist processes and energy ranges where a treatment in terms of ordinary quantum mechanical tools is appropriate and the approximation of neglecting the full field theoretic description is justified Thus one may use concepts such as potentials and wave equations classical fields and classical currents etc The present text is devoted precisely to the systematic discussion of these topics to which we have added a general description of one and two particle relativistic states in particular for scattering processes A field theoretic approach may not be entirely avoided and in fact an introduction to quantum field theory is presented in this text However field theory is not the object per se of this book apart from a few examples field theory is mainly employed to establish the connection with equivalent potentials to study the classical limit of the emission of radiation or to discuss the propagation of a fermion in classical electromagnetic fields

**The Early Universe** Gerhard Börner, 2013-04-17 In this corrected and enlarged edition of Börner's well respected textbook you will find an up to date account of the interplay between particle physics and astrophysics upon which modern cosmology is founded The author describes some of the theories which have been developed to model the fundamental interaction of elementary particles in the extremely high temperatures of the early universe taking care to distinguish facts and well established results from hypotheses and speculations The three parts of the book discuss the standard hot big bang model of the early universe the basic ideas of the standard and the grand unified theories of elementary particles and the influence of dark matter of the large scale evolution of structure In addition to making some minor corrections the author has added an appendix presenting new results and an updated bibliography Two main groups of readers are addressed research students in astronomy can use this book to understand the impact of elementary particle theory on cosmology while research students in particle physics can use it to acquaint themselves with the basic facts of cosmology The book is written carefully enough to appeal also to a wider audience of physicists

Quantum Field Theory III: Gauge Theory Eberhard

Zeidler, 2011-08-17 In this third volume of his modern introduction to quantum field theory Eberhard Zeidler examines the mathematical and physical aspects of gauge theory as a principle tool for describing the four fundamental forces which act in the universe gravitative electromagnetic weak interaction and strong interaction Volume III concentrates on the classical aspects of gauge theory describing the four fundamental forces by the curvature of appropriate fiber bundles This must be supplemented by the crucial but elusive quantization procedure The book is arranged in four sections devoted to realizing

the universal principle force equals curvature Part I The Euclidean Manifold as a Paradigm Part II Ariadne's Thread in Gauge Theory Part III Einstein's Theory of Special Relativity Part IV Ariadne's Thread in Cohomology For students of mathematics the book is designed to demonstrate that detailed knowledge of the physical background helps to reveal interesting interrelationships among diverse mathematical topics Physics students will be exposed to a fairly advanced mathematics beyond the level covered in the typical physics curriculum Quantum Field Theory builds a bridge between mathematicians and physicists based on challenging questions about the fundamental forces in the universe macrocosmos and in the world of elementary particles microcosmos

**Quantum Relativity** David R. Finkelstein, 2012-12-06 Over the past years the author has developed a quantum language going beyond the concepts used by Bohr and Heisenberg The simple formal algebraic language is designed to be consistent with quantum theory It differs from natural languages in its epistemology modal structure logical connections and copulatives Starting from ideas of John von Neumann and in part also as a response to his fundamental work the author bases his approach on what one really observes when studying quantum processes This way the new language can be seen as a clue to a deeper understanding of the concepts of quantum physics at the same time avoiding those paradoxes which arise when using natural languages The work is organized didactically The reader learns in fairly concrete form about the language and its structure as well as about its use for physics

*The Mechanics and Thermodynamics of Continuous Media* Miroslav Silhavy, 2013-11-27 This book presents the nonlinear theories of continuum thermomechanics Through out 1 emphasize issues that are foundational in nature and seek results common to materials of arbitrary symmetry The central part of the book deals with thermoelastic bodies with heat conduction and viscosity including the inviscid or ideal dissipation less bodies A surprising variety of phenomena can be modeled within this frame work Moreover the main ideas can be transferred into more complicated theories At present the major challenge to the non linear thermoelasticity is posed by phase transformations with changes in symmetry 1 W Gibbs immensely influential treatise On the equilibrium of heterogeneous substances has provided a highly successful theory of phase transitions in fluids Gibbs brought the view that the thermodynamics is not only the theory of heat but also a theory of equilibrium with the of the book is an extension of main tool the minimum principles A large portion Gibbs ideas to bodies of general symmetry by the methods of the calculus of variations The interplay between the convexity properties of the stored energy functions the resulting equations and the physics of the phenomena is a leading theme

**Finite Quantum Electrodynamics** G. Scharf, 2012-12-06 In this textbook for graduate students in physics the author carefully analyses the role of causality in Q E D This new approach avoids ultraviolet divergences so that the detailed calculations of scattering processes and proofs can be carried out in a mathematically rigorous manner Significant themes such as renormalizability gauge invariance unitarity renormalization group interacting fields and axial anomalies are discussed The extension of the methods to non abelian gauge theories is briefly described The book differs considerably from its first edition Chap 3 on Causal Perturbation Theory

was completely rewritten and Chap 4 on Properties of the S Matrix and Chap 5 on Other Electromagnetic Couplings are new

**Supersymmetric Methods in Quantum and Statistical Physics** Georg Junker, 2012-12-06 The idea of supersymmetry was originally introduced in relativistic quantum field theories as a generalization of Poincare symmetry In 1976 Nicolai suggested an analogous generalization for non relativistic quantum mechanics With the one dimensional model introduced by Witten in 1981 supersymmetry became a major tool in quantum mechanics and mathematical statistical and condensed matter physics Supersymmetry is also a successful concept in nuclear and atomic physics An underlying supersymmetry of a given quantum mechanical system can be utilized to analyze the properties of the system in an elegant and effective way It is even possible to obtain exact results thanks to supersymmetry The purpose of this book is to give an introduction to supersymmetric quantum mechanics and review some of the recent developments of various supersymmetric methods in quantum and statistical physics Thereby we will touch upon some topics related to mathematical and condensed matter physics A discussion of supersymmetry in atomic and nuclear physics is omitted However the reader will find some references in Chap 9 Similarly supersymmetric field theories and supergravity are not considered in this book In fact there exist already many excellent textbooks and monographs on these topics A list may be found in Chap 9 Yet it is hoped that this book may be useful in preparing a footing for a study of supersymmetric theories in atomic nuclear and particle physics The plan of the book is as follows

*Local Quantum Physics* Rudolf Haag, 2012-12-06 The new edition provided the opportunity of adding a new chapter entitled Principles and Lessons of Quantum Physics It was a tempting challenge to try to sharpen the points at issue in the long lasting debate on the Copenhagen Spirit to assess the significance of various arguments from our present vantage point seventy years after the advent of quantum theory where after all some problems appear in a different light It includes a section on the assumptions leading to the specific mathematical formalism of quantum theory and a section entitled The evolutionary picture describing my personal conclusions Altogether the discussion suggests that the conventional language is too narrow and that neither the mathematical nor the conceptual structure are built for eternity Future theories will demand radical changes though not in the direction of a return to determinism Essential lessons taught by Bohr will persist This chapter is essentially self contained Some new material has been added in the last chapter It concerns the characterization of specific theories within the general frame and recent progress in quantum field theory on curved space time manifolds A few pages on renormalization have been added in Chapter II and some effort has been invested in the search for mistakes and unclear passages in the first edition The central objective of the book expressed in the title *Local Quantum Physics* is the synthesis between special relativity and quantum theory together with a few other principles of general nature

*Electroweak Theory* E. A. Paschos, 2023-07-27 Concise introduction to electroweak theory for graduate students and researchers in elementary particle physics

*Path Integral Approach to Quantum Physics* Gert Roepstorff, 2012-12-06 This book has been written twice After having written and published it in German in 1990 I started

allover again and rewrote the whole story for an English speaking audience During the first round I received encouraging words and critical remarks from students and colleagues alike which have helped to sustain me the second time around In the preface the author usually states that his or her book resulted from a course that he or she gave at some university I cannot claim that the present book is any exception to the rule But I expanded and remodelled the original material which circulated as a manuscript so that the printed version would follow a more stringent and coherent architectural plan In doing so I have concentrated on the conceptual problems inherent in the path integral formalism rather than on certain highly specialized techniques used in applications Nevertheless I have also included those methods that are of fundamental interest and have treated specific problems mainly to illustrate them **Dynamics of the Standard Model** John F.

Donoghue,Eugene Golowich,Barry R. Holstein,1994-06-16 Focusing on the techniques by which the model can produce information about real observed phenomena this book provides a detailed account of the Standard Model of particle physics Following an account of the theory the major part of the text is concerned with its application to the calculation of physical properties of particles **Symmetries in Physics** Alejandro Frank,Kurt B. Wolf,2012-12-06 This volume gives a borad

overview on symmetry methods ypllied to molecular and nuclear physics to particle physics decay processes and phase space dynamics The thoroughly edited contributions should be of interest not only to scientists but also to thos that want to see how symmetry considerations are put to work in twentieth century physics Computational Multiscale Modeling of Fluids and Solids Martin Oliver Steinhauser,2016-11-29 The idea of the book is to provide a comprehensive overview of computational physics methods and techniques that are used for materials modeling on different length and time scales Each chapter first provides an overview of the basic physical principles which are the basis for the numerical and mathematical modeling on the respective length scale The book includes the micro scale the meso scale and the macro scale and the chapters follow this classification The book explains in detail many tricks of the trade of some of the most important methods and techniques that are used to simulate materials on the perspective levels of spatial and temporal resolution Case studies are included to further illustrate some methods or theoretical considerations Example applications for all techniques are provided some of which are from the author s own contributions to some of the research areas The second edition has been expanded by new sections in computational models on meso macroscopic scales for ocean and atmosphere dynamics

Numerous applications in environmental physics and geophysics had been added **Naturalness, String Landscape and Multiverse** Arthur Hebecker,2021-03-26 This book presents a string theoretic approach to new ideas in particle physics also known as Physics Beyond the Standard Model and to cosmology The concept of Naturalness and its apparent violation by the low electroweak scale and the small cosmological constant is emphasized It is shown that string theory through its multitude of solutions known as the landscape offers a partial resolution to these naturalness problems as well as suggesting more speculative possibilities like that of a multiverse The book is based on a one semester course as such it has a pedagogical

approach is self contained and includes many exercises with solutions. Notably the basics of string theory are introduced as part of the lectures. These notes are aimed at graduate students with a solid background in quantum field theory as well as at young researchers from theoretical particle physics to mathematical physics. This text also benefits students who are in the process of studying string theory at a deeper level. In this case the volume serves as additional reading beyond a formal string theory course.

*Beyond the Visible Universe : from a New Space-time Concept of the Physical Vacuum* S. Sarg, 2005



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