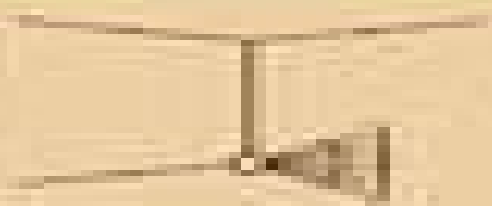


F. Schöck

Electroweak and Strong Interactions

An Introduction
to Theoretical Particle Physics

Second Revised and Enlarged Edition



Springer

Electroweak And Strong Interaction An Introduction To Theoretical Particle Physics

Walter Greiner, Berndt Müller



Electroweak And Strong Interaction An Introduction To Theoretical Particle Physics:

Electroweak and Strong Interactions Florian Scheck, 2013-04-17 *Electroweak and Strong Interaction An Introduction to Theoretical Particle Physics* begins with relativistic quantum mechanics which lays the foundation for the rest of the text. The phenomenology and the physics of fundamental interactions are emphasized through a detailed discussion of the empirical fundamentals of unified theories of strong electromagnetic and weak interactions. The principles of local gauge theories are described. The minimal standard model of the fundamental interactions is developed and characteristic applications are worked out. Possible signals of physics beyond that model and the theory of interactions of elementary particles probing complex nuclei are also discussed. Numerous exercises with solutions make the text suitable for advanced courses.

Electroweak and Strong Interaction Florian Scheck, 1996 *Electroweak and Strong Interactions* Florian Scheck, 2011-10-21 *Electroweak and Strong Interaction Phenomenology Concepts Models* begins with relativistic quantum mechanics and some quantum field theory which lay the foundation for the rest of the text. The phenomenology and the physics of the fundamental interactions are emphasized through a detailed discussion of the empirical fundamentals of unified theories of strong electromagnetic and weak interactions. The principles of local gauge theories are described both in a heuristic and a geometric framework. The minimal standard model of the fundamental interactions is developed in detail and characteristic applications are worked out. Possible signals of physics beyond that model, notably in the physics of neutrinos, are also discussed. Among the applications, scattering on nucleons and on nuclei provide salient examples. Numerous exercises with solutions make the text suitable for advanced courses or individual study. This completely updated revised new edition contains an enlarged chapter on quantum chromodynamics and a widely updated chapter on neutrino physics. *A Primer for Chiral Perturbation Theory* Stefan Scherer, Matthias R. Schindler, 2011-10-01 *Chiral Perturbation Theory* as effective field theory is a commonly accepted and well established working tool approximating quantum chromodynamics at energies well below typical hadron masses. This volume, based on a number of lectures and supplemented with additional material, provides a pedagogical introduction for graduate students and newcomers entering the field from related areas of nuclear and particle physics. Starting with the Lagrangian of the strong interactions and general symmetry principles, the basic concepts of Chiral Perturbation Theory in the mesonic and baryonic sectors are developed. The application of these concepts is then illustrated with a number of examples. A large number of exercises, 81 with complete solutions, are included to familiarize the reader with helpful calculational techniques. Introduction to Quantum Field Theory Anthony G. Williams, 2022-08-04 This textbook offers a detailed and uniquely self-contained presentation of quantum and gauge field theories. Writing from a modern perspective, the author begins with a discussion of advanced dynamics and special relativity before guiding students steadily through the fundamental principles of relativistic quantum mechanics and classical field theory. This foundation is then used to develop the full theoretical framework of quantum and gauge field

theories The introductory opening half of the book allows it to be used for a variety of courses from advanced undergraduate to graduate level and students lacking a formal background in more elementary topics will benefit greatly from this approach Williams provides full derivations wherever possible and adopts a pedagogical tone without sacrificing rigour Worked examples are included throughout the text and end of chapter problems help students to reinforce key concepts A fully worked solutions manual is available online for instructors

Standard Theory Of Particle Physics, The: Essays To Celebrate Cern's 60th Anniversary Luciano Maiani, Luigi Rolandi, 2016-08-25 The editors make a good point in claiming the time has come to upgrade the Standard Model into the Standard Theory of particle physics and I think this book deserves a place in the bookshelves of a broad community from the scientists and engineers who contributed to the progress of high energy physics to younger physicists eager to learn and enjoy the corresponding inside stories Carlos Louren oCERN CourierThe book gives a quite complete and up to date picture of the Standard Theory with an historical perspective with a collection of articles written by some of the protagonists of present particle physics The theoretical developments are described together with the most up to date experimental tests including the discovery of the Higgs Boson and the measurement of its mass as well as the most precise measurements of the top mass giving the reader a complete description of our present understanding of particle physics

Electroweak Interactions Peter Renton, 1990-02-22 This book describes the theory of electroweak interactions starting from a level understandable to students with only a first degree in physics This theory the Glashow Salam Weinberg GSW model unifies the weak and electromagnetic forces of nature and gives a detailed description of the interactions between quarks and leptons the basic building blocks of matter The various experimental tests of the model that have been made and that are planned are described in detail with reference to the fact that all results obtained so far are in agreement with the model The interactions of quarks by the strong force the theory of quantum chromodynamics are also discussed The GSW model together with quantum chromodynamics constitute the so called standard model Theories proposing further unification of the forces of nature are outlined This is a rapidly moving subject and this up to date book will be of great value to researchers and beginning graduate students in high energy physics

A Modern Introduction to Quantum Field Theory Michele Maggiore, 2005 The importance and the beauty of modern quantum field theory resides in the power and variety of its methods and ideas which find application in domains as different as particle physics cosmology condensed matter statistical mechanics and critical phenomena This book introduces the reader to the modern developments in a manner which assumes no previous knowledge of quantum field theory Along with standard topics like Feynman diagrams the book discusses effective lagrangians renormalization group equations the path integral formulation spontaneous symmetry breaking and non abelian gauge theories The inclusion of more advanced topics will also make this a most useful book for graduate students and researchers

Gauge Theories of the Strong, Weak, and Electromagnetic Interactions Chris Quigg, 2013-09-23 A thoroughly revised edition of a landmark textbook on gauge theories

and their applications to particle physics This completely revised and updated graduate level textbook is an ideal introduction to gauge theories and their applications to high energy particle physics and takes an in depth look at two new laws of nature quantum chromodynamics and the electroweak theory From quantum electrodynamics through unified theories of the interactions among leptons and quarks Chris Quigg examines the logic and structure behind gauge theories and the experimental underpinnings of today s theories Quigg emphasizes how we know what we know and in the era of the Large Hadron Collider his insightful survey of the standard model and the next great questions for particle physics makes for compelling reading The brand new edition shows how the electroweak theory developed in conversation with experiment Featuring a wide ranging treatment of electroweak symmetry breaking the physics of the Higgs boson and the importance of the 1 TeV scale the book moves beyond established knowledge and investigates the path toward unified theories of strong weak and electromagnetic interactions Explicit calculations and diverse exercises allow readers to derive the consequences of these theories Extensive annotated bibliographies accompany each chapter amplify points of conceptual or technical interest introduce further applications and lead readers to the research literature Students and seasoned practitioners will profit from the text s current insights and specialists wishing to understand gauge theories will find the book an ideal reference for self study Brand new edition of a landmark text introducing gauge theories Consistent attention to how we know what we know Explicit calculations develop concepts and engage with experiment Interesting and diverse problems sharpen skills and ideas Extensive annotated bibliographies

From Spinors to Supersymmetry, *From Spinors to Supersymmetry* Herbi K. Dreiner, Howard E. Haber, Stephen P. Martin, 2023-06-08 Supersymmetry is an extension of the successful Standard Model of particle physics it relies on the principle that fermions and bosons are related by a symmetry leading to an elegant predictive structure for quantum field theory This textbook provides a comprehensive and pedagogical introduction to supersymmetry and spinor techniques in quantum field theory By utilising the two component spinor formalism for fermions the authors provide many examples of practical calculations relevant for collider physics signatures anomalies and radiative corrections They present in detail the component field and superspace formulations of supersymmetry and explore related concepts including the theory of extended Higgs sectors models of grand unification and the origin of neutrino masses Numerous exercises are provided at the end of each chapter Aimed at graduate students and researchers this volume provides a clear and unified treatment of theoretical concepts that are at the frontiers of high energy particle physics

Introduction To Quantum Field Theory And The Standard Model Wolfgang Hollik, 2021-12-28 Based on the lectures given at TU Munich for third year physics students this book provides the basic concepts of relativistic quantum field theory perturbation theory Feynman graphs Abelian and non Abelian gauge theories with application to QED QCD and the electroweak Standard Model It also introduces quantum field theory and particle physics for beginning graduate students with an orientation towards particle physics and its theoretical foundations Phenomenology of W and Z bosons as well as

Higgs bosons is part of the electroweak chapter in addition to recent experimental results precision tests and current status of the Standard Model

Quantum Field Theory for Mathematicians Robin Ticciati, 1999-06-13 This should be a useful reference for anybody with an interest in quantum theory

Particles and Astrophysics Maurizio Spurio, 2014-10-06 This book is an introduction to multi messenger astrophysics It covers the many different aspects connecting particle physics with astrophysics and cosmology and introduces astrophysics using numerous experimental findings recently obtained through the study of high energy particles Taking a systematic approach it comprehensively presents experimental aspects from the most advanced laboratories and detectors as well as the theoretical background The book is aimed at graduate students and post graduate researchers with a basic understanding of particle and nuclear physics It will also be of interest to particle physicists working in accelerator collider physics who are keen to understand the mechanisms of the largest accelerators in the Universe The book draws on the extensive lecturing experience of Professor Maurizio Spurio from the University of Bologna

Future Directions in Particle and Nuclear Physics at Multi-GeV Hadron Beam Facilities, 1995

[Neutrinos in High Energy and Astroparticle Physics](#) Jose Wagner Furtado Valle, Jorge Romao, 2015-02-02 This self contained modern textbook provides a modern description of the Standard Model and its main extensions from the perspective of neutrino physics In particular it includes a thorough discussion of the varieties of seesaw mechanism with or without supersymmetry It also discusses schemes where neutrino mass arises from lighter messengers which might lie within reach of the world s largest particle accelerator the Large Hadron Collider Throughout the text the book stresses the role of neutrinos due to the fact that neutrino properties may serve as a guide to the correct model of unification hence for a deeper understanding of high energy physics and because neutrinos play an important role in astroparticle physics and cosmology Each chapter includes summaries and set of problems as well as further reading

Handbook of Quantum Gravity Cosimo Bambi, Leonardo Modesto, Ilya Shapiro, 2024-12-03 The search for a theory of quantum gravity is one of the most important and fascinating problems in modern theoretical physics While we do not have yet a complete theory of quantum gravity significant advancements have been done in the past decades In this handbook every section is dedicated to a specific approach towards a theory of quantum gravity and is edited by the leading experts in the field This book represents both a valuable resource for graduate students and an important reference for researchers in quantum gravity

Elementary Particle Physics Yorikiyo Nagashima, 2013-02-08 This second volume of Elementary Particle Physics Foundations of the Standard Model concentrates on the main aspects of the Standard Model by addressing developments from its establishments to recent progress and some future prospects Two subjects are clearly separated which cover dynamics of the electroweak and strong interactions but basso continuo throughout the book is a bridge between theory and experiments All the basic formulas are derived from the first principle and corrections to meet the experimental accuracy are explained This volume is a logical step up from volume I but can also be considered and used as an independent monograph for high energy

and theoretical physicists as well as astronomers graduate students and lecturers in physics

Theoretical Physics Text and Exercise Books Walter Greiner, Berndt Müller, 2012-12-06 More than a generation of German speaking students around the world have worked their way to an understanding and appreciation of the power and beauty of modern theoretical physics with mathematics the most fundamental of sciences using Walter Greiner's textbooks as their guide The idea of developing a coherent complete presentation of an entire field of science in a series of closely related textbooks is not a new one Many older physicists remember with real pleasure their sense of adventure and discovery as they worked their ways through the classic series by Sommerfeld by Planck and by Landau and Lifshitz From the students viewpoint there are a great many obvious advantages to be gained through use of consistent notation logical ordering of topics and coherence of presentation beyond this the complete coverage of the science provides a unique opportunity for the author to convey his personal enthusiasm and love for his subject The present five volume set Theoretical Physics is in fact only that part of the complete set of textbooks developed by Greiner and his students that presents the quantum theory I have long urged him to make the remaining volumes on classical mechanics and dynamics on electromagnetism on nuclear and particle physics and on special topics available to an English speaking audience as well and we can hope for these companion volumes covering all of theoretical physics some time in the future

Rigorous Quantum Field Theory Anne Boutet de Monvel, Detlev Buchholz, Daniel Iagolnitzer, Ugo Moschella, 2006-12-15 Jacques Bros has greatly advanced our present understanding of rigorous quantum field theory through numerous contributions this book arose from an international symposium held in honour of Bros on the occasion of his 70th birthday Key topics in this volume include Analytic structures of Quantum Field Theory QFT renormalization group methods gauge QFT stability properties and extension of the axiomatic framework QFT on models of curved spacetimes QFT on noncommutative Minkowski spacetime

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