

A Modern Introduction to Quantum Field Theory

Michele Maggiore



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Modern Introduction To Quantum Field Theory

Matthew D. Schwartz



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Quantum Field Theory François Gelis, 2019-07-11

This modern text combines fundamental principles with advanced topics and recent techniques in a rigorous and self contained treatment of quantum field theory Beginning with a review of basic principles starting with quantum mechanics and special relativity students can refresh their knowledge of elementary aspects of quantum field theory and perturbative calculations in the Standard Model Results and tools relevant to many applications are covered including canonical quantization path integrals non Abelian gauge theories and the renormalization group Advanced topics are explored with detail given on effective field theories quantum anomalies stable extended field configurations lattice field theory and field theory at a finite temperature or in the strong field regime Two chapters are dedicated to new methods for calculating scattering amplitudes spinor helicity on shell recursion and generalized unitarity equipping students with practical skills for research Accessibly written with numerous worked examples and end of chapter problems this is an essential text for graduate students The breadth of coverage makes it an equally excellent reference for researchers

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Quantum Field Theory in a Nutshell A. Zee, 2010-02-21 A fully updated edition of the classic text by acclaimed physicist A Zee Since it was first published Quantum Field Theory in a Nutshell has quickly established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics Now in this fully revised and expanded edition A Zee covers the latest advances while providing a solid conceptual foundation for students to build on making this the most up to date and modern textbook on quantum field theory available This expanded edition features several additional chapters as well as an entirely new section describing recent developments in quantum field theory such as gravitational waves the helicity spinor formalism on shell gluon scattering recursion relations for amplitudes with complex momenta and the hidden connection between Yang Mills theory and Einstein gravity Zee also provides added exercises explanations and examples as well as detailed appendices solutions to selected exercises and suggestions for further reading The most accessible and comprehensive introductory textbook available Features a fully revised updated and expanded text Covers the latest exciting advances in the field Includes new exercises Offers a one of a

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Quantum Field Theory V. P. Nair, 2005-03-09 Quantum field theory which started with Paul Dirac's work shortly after the discovery of quantum mechanics has produced an impressive and important array of results Quantum electrodynamics with its extremely accurate and well tested predictions and the standard model of electroweak and chromodynamic nuclear forces are examples of successful theories Field theory has also been applied to a variety of phenomena in condensed matter physics including superconductivity superfluidity and the quantum Hall effect The concept of the renormalization group has given us a new perspective on field theory in general and on critical phenomena in particular At this stage a strong case can be made that quantum field theory is the mathematical and intellectual framework for describing and understanding all physical phenomena except possibly for a quantum theory of gravity Quantum Field Theory A Modern Perspective presents Professor Nair's view of certain topics in field theory loosely knit together as it grew out of courses on field theory and particle physics taught at Columbia University and the City College of CUNY The first few chapters up to Chapter 12 contain material that generally goes into any course on quantum field theory although there are a few nuances of presentation which readers may find to be different from other books This first part of the book can be used for a general course on field theory omitting perhaps the last three sections in Chapter 3 the last two in Chapter 8 and sections 6 and 7 in Chapter 10 The remaining chapters cover some of the more modern developments over the last three decades involving topological and geometrical features The introduction given to the mathematical basis of this part of the discussion is necessarily brief and should be accompanied by books on the relevant mathematical topics as indicated in the bibliography Professor Nair also concentrates on developments pertinent to a better understanding of the standard model There is no discussion of supersymmetry supergravity developments in field theory inspired by string theory etc There is also no detailed discussion of the renormalization group Each of these topics would require a book in its own right to do justice to the topic Quantum Field Theory A Modern Perspective serves as a portal to so many more topics of detailed and ongoing research referring readers to more detailed treatments for many specific topics The book also contains extensive references providing readers a more comprehensive perspective on the literature and the historical development of the subject V Parameswaran Nair is Professor of Physics at City College of The City University of New York CUNY Professor Nair has held Visiting Professorships at The Abdus Salam International Center for Theoretical Physics Rockefeller University Institute for Advanced Study at Princeton

and Massachusetts Institute of Technology **Introduction to Quantum Field Theory** Horatiu Nastase, 2019-10-17

Quantum Field Theory provides a theoretical framework for understanding fields and the particles associated with them and is the basis of particle physics and condensed matter research This graduate level textbook provides a comprehensive introduction to quantum field theory giving equal emphasis to operator and path integral formalisms It covers modern research such as helicity spinors BCFW construction and generalized unitarity cuts as well as treating advanced topics including BRST quantization loop equations and finite temperature field theory Various quantum fields are described including scalar and fermionic fields Abelian vector fields and Quantum ElectroDynamics QED and finally non Abelian vector fields and Quantum ChromoDynamics QCD Applications to scattering cross sections in QED and QCD are also described Each chapter ends with exercises and an important concepts section allowing students to identify the key aspects of the chapter and test their understanding An Introduction To Quantum Field Theory, Student Economy Edition Michael Peskin, 2018-04-27 An Introduction to Quantum Field Theory is a textbook intended for the graduate physics course covering relativistic quantum mechanics quantum electrodynamics and Feynman diagrams The authors make these subjects accessible through carefully worked examples illustrating the technical aspects of the subject and intuitive explanations of what is going on behind the mathematics After presenting the basics of quantum electrodynamics the authors discuss the theory of renormalization and its relation to statistical mechanics and introduce the renormalization group This discussion sets the stage for a discussion of the physical principles that underlie the fundamental interactions of elementary particle physics and their description by gauge field theories **Introduction to Quantum Field Theory** V.I.G. Kiselev, Ya.M. Shnir, A.Ya. Tregubovich, 2000-11-17 This text explains the features of quantum and statistical field systems that result from their field theoretic nature and are common to different physical contexts It supplies the practical tools for carrying out calculations and discusses the meaning of the results The central concept is that of effective action or free energy and the main t *Problem Book in Quantum Field Theory* Voja Radovanovic, 2008-01-24 The Problem Book in Quantum Field Theory contains about 200 problems with solutions or hints that help students to improve their understanding and develop skills necessary for pursuing the subject It deals with the Klein Gordon and Dirac equations classical field theory canonical quantization of scalar Dirac and electromagnetic fields the processes in the lowest order of perturbation theory renormalization and regularization The solutions are presented in a systematic and complete manner The material covered and the level of exposition make the book appropriate for graduate and undergraduate students in physics as well as for teachers and researchers *Quantum Field Theory II: Quantum Electrodynamics* Eberhard Zeidler, 2008-09-03 And God said Let there be light and there was light Genesis 1:3 Light is not only the basis of our biological existence but also an essential source of our knowledge about the physical laws of nature ranging from the seventeenth century geometrical optics up to the twentieth century theory of general relativity and quantum electrodynamics Folklore Don't give us numbers give us

insight A contemporary natural scientist to a mathematician The present book is the second volume of a comprehensive introduction to the mathematical and physical aspects of modern quantum field theory which comprehends the following six volumes Volume I Basics in Mathematics and Physics Volume II Quantum Electrodynamics Volume III Gauge Theory Volume IV Quantum Mathematics Volume V The Physics of the Standard Model Volume VI Quantum Gravitation and String Theory It is our goal to build a bridge between mathematicians and physicists based on the challenging question about the fundamental forces in macrocosmos the universe and microcosmos the world of elementary particles The six volumes address a broad audience of readers including both undergraduate and graduate students as well as experienced scientists who want to become familiar with quantum field theory which is a fascinating topic in modern mathematics and physics

Multidisciplinary Approach to Quantum Field Theory Michael Ogilvie, 2022-09-16 This book covers quantum field theory at an introductory level appropriate for graduate students in physics The first volume aims to allow students to begin their research in fields using quantum field theory such as particle physics nuclear physics cosmology and astrophysics and condensed matter physics The key areas the book explores include free noninteracting fields field quantization interacting fields Feynman diagrams scattering cross sections and decay rates renormalization symmetry symmetry breaking and Goldstone bosons Graduate students studying particle nuclear and condensed matter physics are the key audience for this volume It will also be useful to researchers looking for a modern overview of quantum field theory Key Features Emphasizes key concepts and techniques of field theory common across particle physics nuclear physics condensed matter physics and cosmology Examples and problems from many areas of modern physics Each chapter includes worked examples and exercises within the main body of the text with more substantial problems at the end of each chapter **Beyond the**

Standard Model Cocktail Yann Gouttenoire, 2023-01-01 This book provides a remarkable and complete survey of important questions at the interface between theoretical particle physics and cosmology After discussing the theoretical and experimental physics revolution that led to the rise of the Standard Model in the past century the author reviews all the major open puzzles among them the hierarchy problem the small value of the cosmological constant the matter antimatter asymmetry and the dark matter enigma including the state of the art regarding proposed solutions Also addressed are the rapidly expanding fields of thermal dark matter cosmological first order phase transitions and gravitational wave signatures In addition the book presents the original and interdisciplinary PhD research work of the author relating to Weakly Interacting Massive Particles around the TeV scale which are among the most studied dark matter candidates Motivated by the absence of experimental evidence for such particles this thesis explores the possibility that dark matter is much heavier than what is conventionally assumed Quantum Field Theory Thanu Padmanabhan, 2016-02-02 This book describes in clear terms the Why What and the How of Quantum Field Theory The raison d'être of QFT is explained by starting from the dynamics of a relativistic particle and demonstrating how it leads to the notion of quantum fields Non perturbative aspects

and the Wilsonian interpretation of field theory are emphasized right from the start Several interesting topics such as the Schwinger effect Davies Unruh effect Casimir effect and spontaneous symmetry breaking introduce the reader to the elegance and breadth of applicability of field theoretical concepts Complementing the conceptual aspects the book also develops all the relevant mathematical techniques in detail leading e g to the computation of anomalous magnetic moment of the electron and the two loop renormalisation of the self interacting scalar field It contains nearly a hundred problems of varying degrees of difficulty making it suitable for both self study and classroom use *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 An Introduction to Quantum Field Theory Michael Edward Peskin, 1995-10-02 This book is a clear and comprehensive introduction to quantum field theory one that develops the subject systematically from its beginnings The book builds on calculation techniques toward an explanation of the physics of renormalization

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