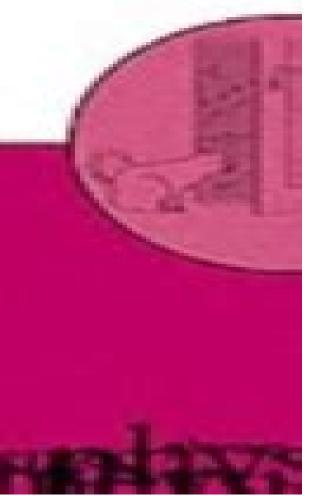
A Modern Introduction to Quantum Field Theory

Michele Maggiore



# **Modern Introduction To Quantum Field Theory**

**Matthew D. Schwartz** 

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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

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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 etre 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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