

# Quantum Field Theory in a Nutshell

Second Edition



A. Zee

# Quantum Field Theory In A Nutshell

**Caroline Litster**



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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

**Lectures Of Sidney Coleman On Quantum Field Theory: Foreword By David Kaiser** Bryan Gin-gu Chen, David Derbes, David Griffiths, Brian Hill, Richard Sohn, Yuan-sen Ting, 2018-11-08 Sidney Coleman was the master teacher of quantum field theory All of us who knew him became his students and disciples Sidney s legendary course remains fresh and bracing because he chose his topics with a sure feel for the essential and treated them with elegant economy Frank Wilczek Nobel Laureate in Physics 2004 Sidney Coleman was a physicist s physicist He is largely unknown outside of the theoretical physics community and known only by reputation to the younger generation He was an unusually effective teacher famed for his wit his insight and his encyclopedic knowledge of

the field to which he made many important contributions There are many first rate quantum field theory books the venerable Bjorken and Drell the more modern Itzykson and Zuber the now standard Peskin and Schroeder and the recent Zee but the immediacy of Prof Coleman's approach and his ability to present an argument simply without sacrificing rigor makes his book easy to read and ideal for the student Part of the motivation in producing this book is to pass on the work of this outstanding physicist to later generations a record of his teaching that he was too busy to leave himself

From Classical Mechanics To Quantum Field Theory, A Tutorial Manuel Asorey, Elisa Ercolessi, Valter Moretti, 2020-01-14 This book collects an extended version of the lectures delivered by the authors at the Fall Workshop on Geometry and Physics in the years 2014 2015 2016 It aims at introducing advanced graduate and PhD students as well as young researchers to current research in mathematics and physics In particular it fills the gap between the more physical oriented and the more mathematical oriented literature on quantum theory It introduces various approaches to methods of quantization along with their impact on modern mathematical methods

Quantum Field Theory I Misha Shifman, 2019-03-12 This textbook grew out of lecture notes the author used in delivering a quantum field theory QFT course for students both in high energy physics and condensed matter who already had an initial exposure to the subject It begins with the path integral method of quantization presented in a systematic and clear cut manner Perturbation theory is generalized beyond tree level to include radiative corrections loops Renormalization procedures and the Wilsonian renormalization group RG flow are discussed asymptotic freedom of non Abelian gauge theories is derived and some applications in Quantum Chromodynamics QCD are considered with a brief digression into the Standard Model SM The SM case requires a study of the spontaneous breaking of gauge symmetry a phenomenon which would be more appropriate to call Higgsing of the gauge bosons Other regimes attainable in gauge theories are explained as well In the condensed matter part the Heisenberg and Ising model are discussed The present textbook differs from many others in that it is relatively concise and at the same time teaches students to carry out actual calculations which they may encounter in QFT related applications

*Digestible Quantum Field Theory* Andrei Smilga, 2017-12-30 This book gives an intermediate level treatment of quantum field theory appropriate to a reader with a first degree in physics and a working knowledge of special relativity and quantum mechanics It aims to give the reader some understanding of what QFT is all about without delving deep into actual calculations of Feynman diagrams or similar The author serves up a seven course menu which begins with a brief introductory Aperitif This is followed by the Hors d'oeuvres which set the scene with a broad survey of the Universe its theoretical description and how the ideas of QFT developed during the last century In the next course the Art of Cooking the author recaps on some basic facts of analytical mechanics relativity quantum mechanics and also presents some nutritious extras in mathematics group theory at the elementary level and in physics theory of scattering After these preparations the reader should have a good appetite for the Entrées the central part of the book where the Standard Model is described and explained After Trou Normand the restive pause

including human stories about physicists and no formulas the author serves the Dessert devoted to supersymmetry a very beautiful theory that is still awaiting a direct experimental confirmation to general relativity and to the mystery of quantum gravity

*Introduction to Classical Field Theory* Jarrett L Lancaster, 2018-09-05 This book is a short introduction to classical field theory most suitable for undergraduate students who have had at least intermediate level courses in electromagnetism and classical mechanics The main theme of the book is showcasing role of fields in mediating action at a distance interactions Suitable technical machinery is developed to explore at least some aspect of each of the four known fundamental forces in nature Beginning with the physically motivated introduction to field theory the text covers the relativistic formulation of electromagnetism in great detail so that aspects of gravity and the nuclear interaction not usually encountered at the undergraduate level can be covered by using analogies with familiar electromagnetism Special topics such as the behavior of gravity in extra compactified dimensions magnetic monopoles and electromagnetic duality and the Higgs mechanism are also briefly considered

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**Scattering Amplitudes in Quantum Field Theory** Simon Badger, Johannes Henn, Jan Christoph Plefka, Simone Zoia, 2023-12-31 This open access book bridges a gap between introductory Quantum Field Theory QFT courses and state of the art research in scattering amplitudes It covers the path from basic definitions of QFT to amplitudes which are relevant for processes in the Standard Model of particle physics The book begins with a concise yet self contained introduction to QFT including perturbative quantum gravity It then presents modern methods for calculating scattering amplitudes focusing on tree level amplitudes loop level integrands and loop integration techniques These methods help to reveal intriguing relations between gauge and gravity amplitudes and are of increasing importance for obtaining high precision predictions for collider experiments such as those at the Large Hadron Collider as well as for foundational mathematical physics studies in QFT including recent applications to gravitational wave physics These course tested lecture notes include numerous exercises with solutions Requiring only minimal knowledge of QFT they are well suited for MSc and PhD students as a preparation for research projects in theoretical particle physics They can be used as a one semester graduate level course or as a self study guide for researchers interested in fundamental aspects of quantum field theory



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