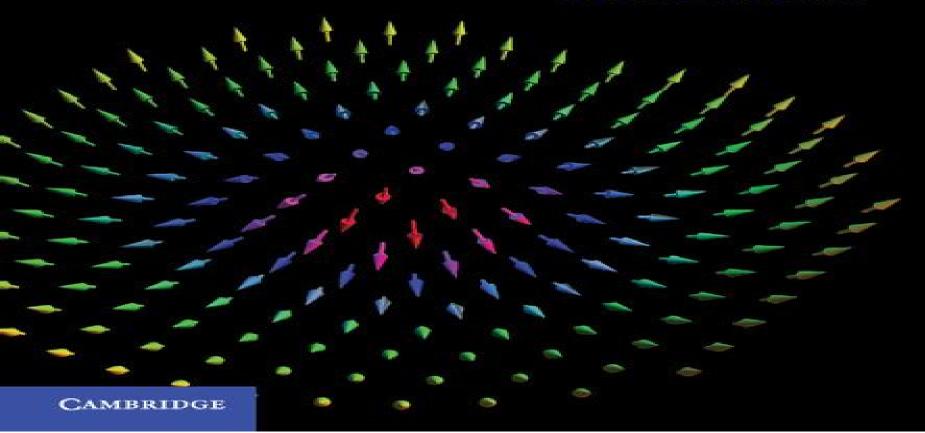
Field Theories of Condensed Matter Physics

SECOND EDITION

Eduardo Fradkin



Field Theories Of Condensed Matter Systems

Alvaro Ferraz, Kumar S. Gupta, Gordon Walter Semenoff, Pasquale Sodano

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matter such as topological insulators and topological superconductors and the simulation of condensed matter systems with cold atoms in optical lattices Field Theories for Low-Dimensional Condensed Matter Systems Guiseppe Morandi, 2000-07-26 The contributions in this book give a high level coverage of many of the subjects and techniques needed to understand the physics of low dimensional condensed matter systems. The topics presented include the use of conformal field theories the Luttinger liquid approach to one dimensional electron systems and the use of random matrices in problems connected with quantum chaos The contributions are authored by some of the most prominent physicists active in the field among them the 1998 Nobel Prize laureate R B Laughlin The book should become an extremely useful instrument for all those interested in theoretical condensed matter physics Boulevard of Broken Symmetries Adriaan M. J. Schakel, 2008 This textbook covers the main topics in contemporary condensed matter physics in a modern and unified way using quantum field theory in the functional integral approach The book highlights symmetry aspects in acknowledging that much of the collective behaviors of condensed matter systems at low temperatures emerge above a nontrivial ground state which spontaneously breaks the symmetry The emphasis is on effective field theories which provide an efficient and powerful description that is valid at long wavelengths and low frequencies In conjunction with the emphasis on effective theories a modern approach towards renormalization is taken whereby a wavenumber cut off is introduced to set a scale beyond which the microscopic model under consideration ceases to be valid The unique and innovative character of this presentation free of historical constraints allows for a compact and self contained treatment of the main topics in contemporary condensed Field Theories for Low-Dimensional Condensed Matter Systems Guiseppe Morandi, Pasquale matter physics Sodano, Arturo Tagliacozzo, Valerio Tognetti, 2013-03-14 This book is especially addressed to young researchers in theoretical physics with a basic background in Field Theory and Condensed Matter Physics The topics were chosen so as to offer the largest possible overlap between the two expertises selecting a few key problems in Condensed Matter Theory which have been recently revisited within a field theoretic approach The presentation of the material is aimed not only at providing the reader with an overview of this exciting frontier area of modern theoretical physics but also at elucidating most of the tools needed for a technical comprehen sion of the many papers appearing in current issues of physics journals and hopefully to enable the reader to tackle research problems in this area of physics This makes the material a live creature while not pretending it to be exhaustive it is tutorial enough to be useful to young researchers as a starting point in anyone of the topics covered in the book Condensed Matter Field Theory Alexander Altland, Ben Simons, 2023-09-14 The text introduces methods of quantum field theory in condensed matter physics from basic concepts to modern developments and applications Field Theories Of Condensed Matter Systems Vol#82 On-demand Printing Of #52253 Eduardo Fradkin, 1997-08-26 Field Theories in Condensed Matter Physics Sumathi Rao, 2019-04-24 The application of field theoretic techniques to problems in condensed matter physics has generated an array of concepts and mathematical

techniques to attack a range of problems such as the theory of quantum phase transitions the quantum Hall effect and quantum wires While concepts such as the renormalization group topology and bosonization h Condensed Matter Physics, Second Edition Eduardo Fradkin, 2013 Presenting the physics of the most challenging problems in condensed matter using the conceptual framework of quantum field theory this book is of great interest to physicists in condensed matter and high energy and string theorists as well as mathematicians Revised and updated this second edition features new chapters on the renormalization group the Luttinger liquid gauge theory topological fluids topological insulators and quantum entanglement The book begins with the basic concepts and tools developing them gradually to bring readers to the issues currently faced at the frontiers of research such as topological phases of matter quantum and classical critical phenomena quantum Hall effects and superconductors Other topics covered include one dimensional strongly correlated systems quantum ordered and disordered phases topological structures in condensed matter and in field theory and fractional statistics Quantum Field Theory in Condensed Matter Physics Alexei M. Tsvelik, 2007-01-18 A new edition of a successful advanced text in condensed matter physics Quantum Field Theory in Condensed Matter Physics Naoto Nagaosa, 2013-11-11 Why is quantum field theory of condensed matter physics necessary Condensed matter physics deals with a wide variety of topics ranging from gas to liquids and solids as well as plasma where owing to the inter play between the motions of a tremendous number of electrons and nuclei rich varieties of physical phenomena occur Quantum field theory is the most appropriate language to describe systems with such a large number of de grees of freedom and therefore its importance for condensed matter physics is obvious Indeed up to now quantum field theory has been successfully applied to many different topics in condensed matter physics Recently guan tum field theory has become more and more important in research on the electronic properties of condensed systems which is the main topic of the present volume Up to now the motion of electrons in solids has been successfully de scribed by focusing on one electron and replacing the Coulomb interaction of all the other electrons by a mean field potential This method is called mean field theory which made important contributions to the explanantion of the electronic structure in solids and led to the classification of insulators semiconductors and metals in terms of the band theory It might be said that also the present achievements in the field of semiconductor technology rely on these foundations In the mean field approximation effects that arise due to the correlation of the motions of many particles cannot be described <u>Boulevard Of Broken Symmetries: Effective Field Theories Of</u> Condensed Matter Adriaan M J Schakel, 2008-10-28 This textbook covers the main topics in contemporary condensed matter physics in a modern and unified way using quantum field theory in the functional integral approach The book highlights symmetry aspects in acknowledging that much of the collective behaviors of condensed matter systems at low temperatures emerge above a nontrivial ground state which spontaneously breaks the symmetry The emphasis is on effective field theories which provide an efficient and powerful description that is valid at long wavelengths and low frequencies In conjunction with

the emphasis on effective theories a modern approach towards renormalization is taken whereby a wavenumber cut off is introduced to set a scale beyond which the microscopic model under consideration ceases to be valid The unique and innovative character of this presentation free of historical constraints allows for a compact and self contained treatment of the main topics in contemporary condensed matter physics *Quantum Field Theory and Condensed Matter*,

Condensed Matter Field Theory Alexander Altland, Ben Simons, 2023-09-14 The methods of quantum field theory underpin many conceptual advances in contemporary condensed matter physics and neighbouring fields This book provides a praxis oriented and pedagogical introduction to quantum field theory in many particle physics emphasizing the application of theory to real physical systems This third edition is organized into two parts the first half of the text presents a streamlined introduction elevating readers to a level where they can engage with contemporary research literature from the introduction of many body techniques and functional integration to renormalization group methods and the second half addresses a range of advanced topics including modern aspects of gauge theory topological and relativistic quantum matter and condensed matter physics out of thermal equilibrium At all stages the text seeks a balance between methodological aspects of quantum field theory and practical applications Extended problems with worked solutions provide a bridge between formal theory and a research oriented approach Modern Theories of Many-Particle Systems in Condensed Matter Physics Daniel C. Cabra, Andreas Honecker, Pierre Pujol, 2012-01-05 Condensed matter systems where interactions are strong are inherently difficult to analyze theoretically The situation is particularly interesting in low dimensional systems where quantum fluctuations play a crucial role Here the development of non perturbative methods and the study of integrable field theory have facilitated the understanding of the behavior of many quasi one and two dimensional strongly correlated systems In view of the same rapid development that has taken place for both experimental and numerical techniques as well as the emergence of novel testing grounds such as cold atoms or graphene the current understanding of strongly correlated condensed matter systems differs quite considerably from standard textbook presentations. The present volume of lecture notes aims to fill this gap in the literature by providing a collection of authoritative tutorial reviews covering such topics as quantum phase transitions of antiferromagnets and cuprate based high temperature superconductors electronic liquid crystal phases graphene physics dynamical mean field theory applied to strongly correlated systems transport through quantum dots quantum information perspectives on many body physics frustrated magnetism statistical mechanics of classical and quantum computational complexity and integrable methods in statistical field theory As both graduate level text and authoritative reference on this topic this book will benefit newcomers and more experienced researchers in this field alike

Low-dimensional Quantum Field Theories For Condensed Matter Physicists - Lecture Notes Of Ictp Summer Course Lu Yu, Stig Lundqvist, Giuseppe Morandi, 1995-02-28 This volume contains a set of pedagogical reviews covering the most recent applications of low dimensional quantum field theory in condensed matter physics written by experts who have

made major contributions to this rapidly developing field of research The main purpose is to introduce active young researchers to new ideas and new techniques which are not covered by the standard textbooks Field Theories in Condensed Matter Physics Zlatko Tesanovic,1990 Quantum Field Theory Approach to Condensed Matter Physics Eduardo C. Marino,2017-09-28 A balanced combination of introductory and advanced topics provides a new and unique perspective on the quantum field theory approach to condensed matter physics Beginning with the basics of these subjects such as static and vibrating lattices independent and interacting electrons the functional formulation for fields and different generating functionals and their roles this book presents a unified viewpoint illustrating the connections and relationships among various physical concepts and mechanisms Advanced and newer topics bring the book up to date with current developments and include sections on cuprate and pnictide superconductors graphene Weyl semimetals transition metal dichalcogenides and topological insulators Finally well known subjects such as the quantum Hall effect superconductivity Mott and Anderson insulators and the Anderson Higgs mechanism are examined within a unifying QFT CMP approach Presenting new insights on traditional topics this text allows graduate students and researchers to master the proper theoretical tools required in a variety of condensed matter physics systems

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