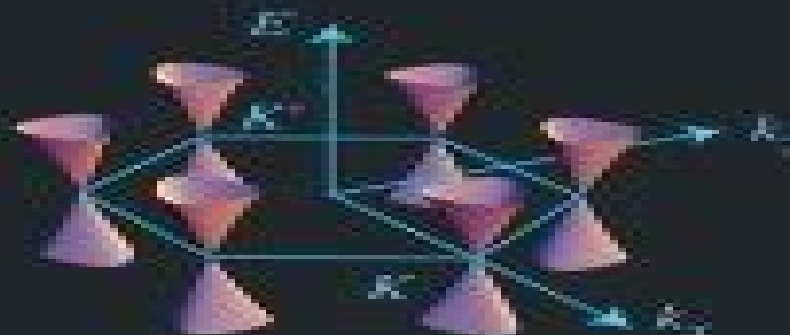


Second Edition

Quantum Hall Effects

*Field Theoretical Approach
and Related Topics*



Zygmunt F. Ezawa



World Scientific

Quantum Hall Effects Field Theoretical Approach And Related Topics

Hideaki Takayanagi



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Pasquier, Vincent Rivasseau, 2006-01-20 The Poincar Seminar is held twice a year at the Institut Henri Poincar in Paris The goal of this seminar is to provide up to date information about general topics of great interest in physics Both the theoretical and experimental results are covered with some historical background Particular care is devoted to the pedagogical nature of the presentation This volume is devoted to the quantum Hall effect After a historical and general presentation by Nobel prize winner Klaus von Klitzing discoverer of this effect the volume proceeds with reviews on the mathematics and physics of both the integer and fractional case It includes up to date presentations of the tunneling and metrology experiments related to the quantum Hall effect It will serve the community of physicists and mathematicians at professional or graduate student level

Transport Spectroscopy of Confined Fractional Quantum Hall Systems Stephan Baer, Klaus Ensslin, 2015-08-18 This book provides an overview of recent developments in experiments probing the fractional quantum Hall FQH states of the second Landau level especially the $\nu = 5/2$ state It summarizes the state of the art understanding of these FQH states It furthermore describes how the properties of the FQH states can be probed experimentally by investigating tunneling and confinement properties The progress towards the realization of an experiment allowing to probe the potentially non Abelian statistics of the quasiparticle excitations at $\nu = 5/2$ is discussed The book is intended as a reference for graduate students PostDocs and researchers starting in the field The experimental part of this book gives practical advice for solving the experimental challenges which researchers studying highly fragile FQH states are faced with **Solid State Physics** John J.

Quinn, Kyung-Soo Yi, 2018-02-23 This book provides the basis for a two semester graduate course on solid state physics The first half presents all the knowledge necessary for a one semester survey of solid state physics but in greater depth than most

introductory solid state physics courses The second half includes most of the important research over the past half century covering both the fundamental principles and most recent advances This new edition includes the latest developments in the treatment of strongly interacting two dimensional electrons and discusses the generalization from small to larger systems The book provides explanations in a class tested tutorial style and each chapter includes problems reviewing key concepts and calculations The updated exercises and solutions enable students to become familiar with contemporary research activities such as the electronic properties of massless fermions in graphene and topological insulators

Recent Developments in Theoretical Physics Subir Ghosh, Guruprasad Kar, 2010

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Quantum Hall Effects: Recent Theoretical And Experimental Developments (3rd Edition) Zyun Francis Ezawa, 2013-03-21

Enthusiasm for research on the quantum Hall effect QHE is unbounded The QHE is one of the most fascinating and beautiful phenomena in all branches of physics Tremendous theoretical and experimental developments are still being made in this sphere Composite bosons composite fermions and anyons were among distinguishing ideas in the original edition In the 2nd edition fantastic phenomena associated with the interlayer phase coherence in the bilayer system were extensively described The microscopic theory of the QHE was formulated based on the noncommutative geometry Furthermore the unconventional QHE in graphene was reviewed where the electron dynamics can be treated as relativistic Dirac fermions and even the supersymmetric quantum mechanics plays a key role In this 3rd edition all chapters are carefully reexamined and updated A highlight is the new chapter on topological insulators Indeed the concept of topological insulator stems from the QHE Other new topics are recent prominent experimental discoveries in the QHE provided by the experimentalists themselves in Part V This new edition presents an instructive and comprehensive overview of the QHE It is also suitable for an introduction to quantum field theory with vividly described applications Only knowledge of quantum mechanics is assumed This book is ideal for students and researchers in condensed matter physics particle physics theoretical physics and mathematical physics

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Numerical Methods in Electromagnetics W.H.A. SCHILDERS, E.J.W. TER MATEN, 2005-04-04 This special volume provides a broad overview and insight in the way numerical methods are being used to solve the wide variety of problems in the electronics industry Furthermore its aim is to give researchers from other fields of application the opportunity to benefit from the results which have been obtained in the electronics industry Complete survey of numerical methods used in the electronic industry Each chapter is selfcontained Presents state of the art applications and methods Internationally recognised authors

Harmonic Oscillators and Two-By-Two Matrices in Symmetry Problems in Physics Young Suh Kim, 2018-07-09 This book is a printed edition of the Special Issue Harmonic Oscillators In Modern Physics that was published in Symmetry

Controllable Quantum States Hideaki Takayanagi, 2008 This volume is a collection of papers from the fourth meeting of the International Symposium on Mesoscopic Superconductivity and Spintronics held at NTT Atsugi Japan Research in these fields has advanced a great deal since the previous meeting largely because these fields have drawn much attention from the viewpoint of new quantum phenomena and quantum information technology Mesoscopic superconductivity has been developed in new fields such as a ferromagnet superconductor junction the proximity effect in unconventional superconductors macroscopic quantum tunneling in high Tc superconductors quantum modulation of superconducting junctions and superconducting quantum bits The book also covers transport and spins in nano scale semiconductor structures such as quantum dots and wires quantum interference and coherence and order in exotic materials and some papers on quantum algorithm This book adequately provides an overview of recent progress in mesoscopic superconductivity

Ultracold Gases and Quantum Information Christian Miniatura, Leong-Chuan Kwek, Martial Ducloy, Benoît Grémaud, Berthold-Georg Englert, Leticia Cugliandolo, Artur Ekert, Kok Khoo Phua, 2011-05-05 In recent years there has been much synergy between the exciting areas of quantum information science and ultracold atoms This volume as part of the proceedings for the XCI session of Les Houches School of

Physics held for the first time outside Europe in Singapore brings together experts in both fields. The theme of the school focused on two principal topics: quantum information science and ultracold atomic physics. The topics range from Bose-Einstein Condensates to Degenerate Fermi Gases to fundamental concepts in Quantum Information Sciences including some special topics on Quantum Hall Effects, Quantum Phase Transition, Interactions in Quantum Fluids, Disorder and Interference Phenomena, Trapped Ions and Atoms, and Quantum Optical Devices.

The Multifaceted Skyrmion Mannque Rho, Ismail Zahed, 2016-09-29. This book presents in the form of reviews by world's leading physicists in wide-ranging fields in theoretical physics the influence and prescience of Skyrme's daring idea of 1960 originally conceived for nuclear physics that fermions can arise from bosons via topological solitons pervasively playing a powerful role in wide-ranging areas of physics from nuclear astrophysics to particle physics to string theory and to condensed matter physics. The skyrmion description both from gauge theory and from gauge-gravity duality offers solutions to some long-standing and extremely difficult problems at high baryonic density inaccessible by QCD proper. It also offers explanations and makes startling predictions for fascinating new phenomena in condensed matter systems. In both cases what is at the core is the topology although the phenomena are drastically different even involving different spacetime dimensions. This second edition has been expanded with addition of new reviews and extensively updated to take into account the latest developments in the field.

Contents: Hadrons and Nuclear Matter; Skyrmions and Nuclei; R. A. Battye, N. S. Manton and P. M. Sutcliffe; States of Carbon-12 in the Skyrme Model; P. H. C. Lau and N. S. Manton; Electromagnetic Form Factors of the Nucleon in Chiral Soliton Models; G. Holzwarth; Exotic Baryon Resonances in the Skyrme Model; D. Diakonov and V. Petrov; Heavy Quark Skyrmions; N. N. Scoccola; Pentaquark Candidates; P. c 4380 and P. c 4450 within the Soliton Picture of Baryons; N. N. Scoccola, D. O. Riska and M. Rho; Skyrmion Approach to Finite Density and Temperature; B. Y. Park and V. Vento; Fractionized Skyrmions in Dense Compact Star Matter; M. Harada, Y. L. Ma, H. K. Lee and M. Rho; The Skyrme Model in the BPS Limit; C. Adam, C. Naya, J. S. nchez, Guill n R. Vazquez and A. Wereszczy ski; Superqualitons; Baryons in Dense QCD; D. K. Hong; Condensed Matter; Rotational Symmetry Breaking in Baby Skyrme Models; M. Karliner and I. Hen; Emergent Gauge Fields and Their Nonperturbative Effects in Correlated Electrons; K. S. Kim and A. Tanaka; Spin and Isospin; Exotic Order in Quantum Hall Ferromagnets; S. M. Girvin; Noncommutative Skyrmions in Quantum Hall Systems; Z. F. Ezawa and G. Tsitsishvili; Meron Pair Excitations in Bilayer Quantum Hall System; K. Moon; Spin and Pseudospin Textures in Quantum Hall Systems; H. A. Fertig and L. Brey; Half Skyrmion Theory for High Temperature Superconductivity; T. Morinari; Deconfined Quantum Critical Points; T. Senthil, A. Vishwanath, L. Balents, S. Sachdev and M. P. A. Fisher; Skyrmions in a Density Wave State; A Mechanism for Chiral Superconductivity; S. Chakravarty and C. H. Hsu; String Theory Skyrmion and String Theory; S. Sugimoto; Holographic Baryons; P. Yi; The Cheshire Cat Principle from Holography; H. B. Nielsen and I. Zahed; Baryon Physics in a Five Dimensional Model of Hadrons; A. Pomarol and A. Wulzer; Holographic Skyrmions; P. M. Sutcliffe; Holographic Baryons and Instanton Crystal; V. Kaplunovsky, D. Melnikov and J. Sonnenschein; Readership: Research scientists in

the fields of condensed matter physics nuclear and particle physics and string theory Compendium of Quantum Physics Daniel Greenberger, Klaus Hentschel, Friedel Weinert, 2009-07-25 With contributions by leading quantum physicists philosophers and historians this comprehensive A to Z of quantum physics provides a lucid understanding of key concepts of quantum theory and experiment It covers technical and interpretational aspects alike and includes both traditional and new concepts making it an indispensable resource for concise up to date information about the many facets of quantum physics

Quantum Mechanics Kenichi Konishi, Giampiero Paffuti, 2009-03-05 A modern and comprehensive textbook intended to correct the lack of such a text in times of the ever increasing importance of the subject in contemporary science technology and everyday life With its clear pedagogical presentation and with many examples and solved problems it is useful for physics students researchers and teachers alike Compendium On Electromagnetic Analysis - From Electrostatics To

Photonics: Fundamentals And Applications For Physicists And Engineers (In 5 Volumes) , 2020-06-15 The five volume set may serve as a comprehensive reference on electromagnetic analysis and its applications at all frequencies from static fields to optics and photonics The material includes micro and nanomagnetism the new generation of electric machines renewable energy hybrid vehicles low noise motors antennas and microwave devices plasmonics metamaterials lasers and more Written at a level accessible to both graduate students and engineers Electromagnetic Analysis is a comprehensive reference covering methods and applications at all frequencies from statics to optical Each volume contains pedagogical tutorial material of high archival value as well as chapters on state of the art developments

Computational Electrodynamics Wim Schoenmaker, 2022-09-01 Computational Electrodynamics is a vast research field with a wide variety of tools In physics the principle of gauge invariance plays a pivotal role as a guide towards a sensible formulation of the laws of nature as well as computing the properties of elementary particles using the lattice formulation of gauge theories yet the gauge principle has played a much less pronounced role in performing computation in classical electrodynamics In this work the author will demonstrate that starting from the gauge formulation of electrodynamics using the electromagnetic potentials leads to computational tools that can very well compete with the conventional electromagnetic field based tools Once accepting the formulation based on gauge fields the computational code is very transparent due to the mimetic mapping of the electrodynamic variables on the computational grid Although the illustrations and applications originate from microelectronic engineering the method has a much larger range of applicability Therefore this book is of interest to everyone having interest in computational electrodynamics The volume is organized as follows In part 1 a detailed introduction and overview is presented of the Maxwell equations as well as the derivation of the current and charge densities in different materials Semiconductors are responding to electromagnetic fields in a non linear way and the induced complications are discussed in detail In part 2 the transition of the theory of electrodynamics using the gauge potentials to a formulation that can serve as the gateway to computational code is presented In part 3 the feasibility and success of the methods of part 2 are

demonstrated by a collection of microelectronic device designs Part 4 focuses on a set of topical themes that brings the reader to the frontier of research in building the simulation tools using the gauge principle in computational electrodynamics Technical topics discussed in the book include Electromagnetic Field Equations Constitutive Relations Discretization and Numerical Analysis Finite Element and Finite Volume Methods Design of Integrated Passive Components *Graphene* Viera Skakalova, Alan B. Kaiser, 2021-06-23 Graphene Properties Preparation Characterization and Devices Second Edition provides a comprehensive look at the methods used to prepare and analyze graphene Since the first edition's publication there have been many advances in the understanding of graphene in particular its key properties and most relevant applications Updates to this new edition include chapters on liquid exfoliation production of graphene and scanning transmission electron microscopy of graphene New sections cover graphene's thermal optical mechanical chemical and biocompatibility with special attention paid to transport properties a main barrier to the realization of commercial applications Reviews the preparation and characterization of graphene covering the latest advances in liquid exfoliation production and the scanning transmission electron microscopy of graphene Includes a new section dedicated to the properties of graphene thermal transport optical mechanical chemical to reflect the latest understanding of this important material Discusses the most relevant applications of graphene such as biomedical sensing energy and electronic applications Ultracold Atoms in Optical Lattices Maciej Lewenstein, Anna Sanpera, Verónica Ahufinger, 2012-03-08 This book explores the physics of atoms frozen to ultralow temperatures and trapped in periodic light structures It introduces the reader to the spectacular progress achieved on the field of ultracold gases and describes present and future challenges in condensed matter physics high energy physics and quantum computation **Theory of Electron Transport in Semiconductors** Carlo Jacoboni, 2010-09-05 This book originated out of a desire to provide students with an instrument which might lead them from knowledge of elementary classical and quantum physics to modern theoretical techniques for the analysis of electron transport in semiconductors The book is basically a textbook for students of physics material science and electronics Rather than a monograph on detailed advanced research in a specific area it intends to introduce the reader to the fascinating field of electron dynamics in semiconductors a field that through its applications to electronics greatly contributed to the transformation of all our lives in the second half of the twentieth century and continues to provide surprises and new challenges The field is so extensive that it has been necessary to leave aside many subjects while others could be dealt with only in terms of their basic principles The book is divided into five major parts Part I moves from a survey of the fundamentals of classical and quantum physics to a brief review of basic semiconductor physics Its purpose is to establish a common platform of language and symbols and to make the entire treatment as far as possible self contained Parts II and III respectively develop transport theory in bulk semiconductors in semiclassical and quantum frames Part IV is devoted to semiconductor structures including devices and mesoscopic coherent systems Finally Part V develops the basic theoretical tools of transport theory within the modern

nonequilibrium Green function formulation starting from an introduction to second quantization formalism

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