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Shun-Qing Shen

Topological Insulators

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**János K. Asbóth, László
Oroszlány, András Pályi Pályi**



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Topological Insulators Shun-Qing Shen, 2013-01-11 Topological insulators are insulating in the bulk but process metallic states present around its boundary owing to the topological origin of the band structure The metallic edge or surface states are immune to weak disorder or impurities and robust against the deformation of the system geometry This book the first of its kind on topological insulators presents a unified description of topological insulators from one to three dimensions based on the modified Dirac equation A series of solutions of the bound states near the boundary are derived and the existing conditions of these solutions are described Topological invariants and their applications to a variety of systems from one dimensional polyacetalene to two dimensional quantum spin Hall effect and p wave superconductors and three dimensional topological insulators and superconductors or superfluids are introduced helping readers to better understand this fascinating new field This book is intended for researchers and graduate students working in the field of topological insulators and related areas Shun Qing Shen is a Professor at the Department of Physics the University of Hong Kong China

Topological Insulators Shun-Qing Shen, 2017-08-18 This new edition presents a unified description of these insulators from one to three dimensions based on the modified Dirac equation It derives a series of solutions of the bound states near the boundary and describes the current status of these solutions Readers are introduced to topological invariants and their applications to a variety of systems from one dimensional polyacetylene to two dimensional quantum spin Hall effect and p wave superconductors three dimensional topological insulators and superconductors or superfluids and topological Weyl semimetals helping them to better understand this fascinating field To reflect research advances in topological insulators several parts of the book have been updated for the second edition including Spin Triplet Superconductors Superconductivity in Doped Topological Insulators Detection of Majorana Fermions and so on In particular the book features a new chapter on Weyl semimetals a topic that has attracted considerable attention and has already become a new hotpot of research in the community

Introduction to Topological Quantum Matter & Quantum Computation Tudor D. Stanescu, 2016-12-19 What is topological about topological quantum states How many types of topological quantum phases are there What is a zero energy Majorana mode how can it be realized in a solid state system and how can it be used as a platform for topological quantum computation What is quantum computation and what makes it different from classical computation Addressing these and other related questions Introduction to Topological Quantum Matter Quantum Computation provides an introduction to and a synthesis of a fascinating and rapidly expanding research field emerging at the crossroads of condensed matter physics mathematics and computer science Providing the big picture this book is ideal for graduate students and researchers entering this field as it allows for the fruitful transfer of paradigms and ideas amongst different areas and includes many specific examples to help the reader understand abstract and sometimes challenging concepts It explores the topological quantum world beyond the well known topological insulators and superconductors and emphasizes the deep connections with

quantum computation It addresses key principles behind the classification of topological quantum phases and relevant mathematical concepts and discusses models of interacting and noninteracting topological systems such as the torric code and the p wave superconductor The book also covers the basic properties of anyons and aspects concerning the realization of topological states in solid state structures and cold atom systems Quantum computation is also presented using a broad perspective which includes fundamental aspects of quantum mechanics such as Bell s theorem basic concepts in the theory of computation such as computational models and computational complexity examples of quantum algorithms and elements of classical and quantum information theory

Strongly Coupled Field Theories for Condensed Matter and Quantum Information Theory Alvaro Ferraz,Kumar S. Gupta,Gordon Walter Semenoff,Pasquale Sodano,2020-02-29 This book presents a selection of advanced lectures from leading researchers providing recent theoretical results on strongly coupled quantum field theories It also analyzes their use for describing new quantum states which are physically realizable in condensed matter cold atomic systems as well as artificial materials It particularly focuses on the engineering of these states in quantum devices and novel materials useful for quantum information processing The book offers graduate students and young researchers in the field of modern condensed matter theory an updated review of the most relevant theoretical methods used in strongly coupled field theory and string theory It also provides the tools for understanding their relevance in describing the emergence of new quantum states in a variety of physical settings Specifically this proceedings book summarizes new and previously unrelated developments in modern condensed matter physics in particular the interface of condensed matter theory and quantum information theory the interface of condensed matter physics and the mathematics emerging from the classification of the topological phases of matter such as topological insulators and topological superconductors and the simulation of condensed matter systems with cold atoms in optical lattices

Topological Insulators Shunqing Shen,2017 Contemporary Quantum Mechanics in Practice Lilia M. Woods,Pablo Rodríguez López,2024-06-13 This book introduces problems in quantum mechanics from topics of contemporary research interest to complement traditional textbooks

Spin Orbitronics And Topological Properties Of Nanostructures - Lecture Notes Of The Twelfth International School On Theoretical Physics Vitalii K Dugaev,Igor Tralle,Andrzej Wal,Jozef Barnas,2017-11-24 This volume presents lecture notes of the 12th International School of Theoretical Physics held in 2016 in Rzesz w Poland The lectures serve as an introduction for young physicists starting their career in condensed matter theoretical physics The book provides a comprehensive overview of modern ideas and advances in theories and experiments of new materials quantum nanostructures as well as new mathematical methods This lecture note is an essential source of reference for physicists and materials scientists It is also a suitable reading for graduate students

A Short Course on Topological Insulators János K. Asbóth,László Oroszlány,András Pályi Pályi,2016-02-22 This course based primer provides newcomers to the field with a concise introduction to some of the core topics in the emerging field of topological insulators

The aim is to provide a basic understanding of edge states bulk topological invariants and of the bulk boundary correspondence with as simple mathematical tools as possible The present approach uses noninteracting lattice models of topological insulators building gradually on these to arrive from the simplest one dimensional case the Su Schrieffer Heeger model for polyacetylene to two dimensional time reversal invariant topological insulators the Bernevig Hughes Zhang model for HgTe In each case the discussion of simple toy models is followed by the formulation of the general arguments regarding topological insulators The only prerequisite for the reader is a working knowledge in quantum mechanics the relevant solid state physics background is provided as part of this self contained text which is complemented by end of chapter problems

Diverse Quantization Phenomena in Layered Materials Chiun-Yan Lin, Ching-Hong Ho, Jhao-Ying Wu, Thi-Nga Do, Po-Hsin Shih, Shih-Yang Lin, Ming-Fa Lin, 2019-12-06 This monograph offers a comprehensive overview of diverse quantization phenomena in layered materials covering current mainstream experimental and theoretical research studies and presenting essential properties of layered materials along with a wealth of figures This book illustrates commonly used synthesis methods of these 2D materials and compares the calculated results and experimental measurements including novel features not yet reported The book also discusses experimental measurements of magnetic quantization theoretical modeling for studying systems and covers diversified magneto electronic properties magneto optical selection rules unusual quantum Hall conductivities and single and many particle magneto Coulomb excitations Rich and unique behaviors are clearly revealed in few layer graphene systems with distinct stacking configuration stacking modulated structures silicon doped lattices bilayer silicene germanene systems with the bottom top and bottom bottom buckling structures monolayer and bilayer phosphorene systems and quantum topological insulators The generalized tight binding model the static and dynamic Kubo formulas and the random phase approximation are developed modified to thoroughly explore the fundamental properties and propose the concise physical pictures Different high resolution experimental measurements are discussed in detail and they are consistent with the theoretical predictions Aimed at readers working in materials science physics and engineering this book should be useful for potential applications in energy storage electronic devices and optoelectronic devices

Excursions in Ill-Condensed Quantum Matter Adhip Agarwala, 2019-06-13 Impurities disorder or amorphous systems ill condensed matter are mostly considered inconveniences in the study of materials which is otherwise heavily based on idealized perfect crystals The Kondo effect and the scaling theory of localization are among the fundamental and early discoveries which revealed the novelty hidden in impure or disordered systems Recent advances in condensed matter physics have emphasized the role of topology spin orbit coupling and certain discrete symmetries such as time reversal in many physical phenomena These have irreversibly transformed the essential ideas and purview of condensed matter physics both in theoretical and experimental directions However many of these recent developments and their implications are limited to or by ideas that pertain to clean systems This thesis deals with various aspects of these new developments but in

the case of unclean systems The author introduces new ideas such as amorphous topological insulators fractalized metals and fractionalized spins

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