

Topology of Gauge Fields and Condensed Matter



Michael Monastyrsky

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Monika Aidelsburger



Topology Of Gauge Fields And Condensed Matter:

Topology of Gauge Fields and Condensed Matter M. Monastyrsky, 2013-06-29 Intended mainly for physicists and mathematicians its high quality will definitely attract a wider audience Computational Mathematics and Mathematical Physics This work acquaints the physicist with the mathematical principles of algebraic topology group theory and differential geometry as applicable to research in field theory and the theory of condensed matter Emphasis is placed on the topological structure of monopole and instanton solution to the Yang Mills equations the description of phases in superfluid ^3He and the topology of singular solutions in ^3He and liquid crystals

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Classical Theory of Gauge Fields Valery Rubakov, 2009-02-09 Based on a highly regarded lecture course at Moscow State University this is a clear and systematic introduction to gauge field theory It is unique in providing the means to master gauge field theory prior to the advanced study of quantum mechanics Though gauge field theory is typically included in courses on quantum field theory many of its ideas and results can be understood at the classical or semi classical level Accordingly this book is organized so that its early chapters require no special knowledge of quantum mechanics Aspects of gauge field theory relying on quantum mechanics are introduced only later and in a graduated fashion making the text ideal for students studying gauge field theory and quantum mechanics simultaneously The book begins with the basic concepts on which gauge field theory is built It introduces gauge invariant Lagrangians and describes the spectra of linear perturbations including perturbations above nontrivial ground states The second part focuses on the construction and interpretation of classical solutions that exist entirely due to the nonlinearity of field equations solitons bounces instantons and sphalerons The third section considers some of the interesting effects that appear due to interactions of fermions with topological scalar and gauge fields Mathematical digressions and numerous problems are included throughout An appendix sketches the role of instantons as saddle points of Euclidean functional integral and related topics Perfectly suited as an advanced undergraduate or beginning graduate text this book is an excellent starting point for anyone seeking to understand gauge fields

Solitons in Field Theory and Nonlinear Analysis Yisong Yang, 2013-03-14 There are two approaches in the study of differential equations of field theory The first finding closed form solutions works only for a narrow category of problems Written by a well known active researcher this book focuses on the second which is to investigate solutions using tools from modern nonlinear analysis

Recent Developments in Gauge Theories G. 't Hooft, 2013-03-09 Almost all theories

of fundamental interactions are nowadays based on the gauge concept Starting with the historical example of quantum electrodynamics we have been led to the successful unified gauge theory of weak and electromagnetic interactions and finally to a non abelian gauge theory of strong interactions with the notion of permanently confined quarks The early theoretical work on gauge theories was devoted to proofs of renormalizability investigation of short distance behaviour the discovery of asymptotic freedom etc aspects which were accessible to tools extrapolated from renormalised perturbation theory The second phase of the subject is concerned with the problem of quark confinement which necessitates a non perturbative understanding of gauge theories This phase has so far been marked by the introduction of ideas from geometry topology and statistical mechanics in particular the theory of phase transitions The 1979 Cargese Institute on Recent Developments on Gauge Theories was devoted to a thorough discussion of these non perturbative global aspects of non abelian gauge theories In the lectures and seminars reproduced in this volume the reader will find detailed reports on most of the important developments of recent times on non perturbative gauge fields by some of the leading experts and innovators in this field Aside from lectures on gauge fields proper there were lectures on gauge field concepts in condensed matter physics and lectures by mathematicians on global aspects of the calculus of variations its relation to geometry and topology and related topics

A Brief Introduction to Topology and Differential Geometry in Condensed Matter

Physics Antonio Sergio Teixeira Pires, 2019-03-21 In the last years there have been great advances in the applications of topology and differential geometry to problems in condensed matter physics Concepts drawn from topology and geometry have become essential to the understanding of several phenomena in the area Physicists have been creative in producing models for actual physical phenomena which realize mathematically exotic concepts and new phases have been discovered in condensed matter in which topology plays a leading role An important classification paradigm is the concept of topological order where the state characterizing a system does not break any symmetry but it defines a topological phase in the sense that certain fundamental properties change only when the system passes through a quantum phase transition The main purpose of this book is to provide a brief self contained introduction to some mathematical ideas and methods from differential geometry and topology and to show a few applications in condensed matter It conveys to physicists the basis for many mathematical concepts avoiding the detailed formality of most textbooks

Field Theories of Condensed Matter

Physics Eduardo Fradkin, 2013-02-28 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

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

Applied Functional Analysis Eberhard Zeidler, 2012-12-06 A theory is the more impressive the simpler are its premises the more distinct are the things it connects and the broader is its range of applicability Albert Einstein There are two different ways of teaching mathematics namely i the systematic way and ii the application oriented way More precisely by i I mean a systematic presentation of the material governed by the desire for mathematical perfection and completeness of the results In contrast to i approach ii starts out from the question What are the most important applications and then tries to answer this question as quickly as possible Here one walks directly on the main road and does not wander into all the nice and interesting side roads The present book is based on the second approach It is addressed to undergraduate and beginning graduate students of mathematics physics and engineering who want to learn how functional analysis elegantly solves mathematical problems that are related to our real world and that have played an important role in the history of mathematics The reader should sense that the theory is being developed not simply for its own sake but for the effective solution of concrete problems viii Preface This introduction to functional analysis is divided into the following two parts Part I Applications to mathematical physics the present AMS Vol 108 Part II Main principles and their applications AMS Vol 109

[Physics, Uspekhi](#), 2004

Fundamental Physics At The Vigier Centenary: "L'heretique De La Physique" Lives On Richard L Amoroso, Louis H Kauffman, Peter Rowlands, 2021-08-27 There has not been a scientific revolution for about 100 years One seems imminent as QED has recently been violated at the Sigma 6 level Kuhn in The Structure of Scientific Revolutions used Wittgenstein's famous duck rabbit optical illusion to demonstrate how bias in interpretation causes scientists to see the same information in radically different manners which is likely to have delayed the pending paradigm shift Jean Pierre Vigier continually labeled l h r tique de la physique and l eternal resistant in French media remains a pillar of modern mathematical physics Heretical works of Vigier related to extended electromagnetic theory

incorporating photon mass and a longitudinal B 3 EM field gravity quantum theory large scale additional dimensions the Dirac polarized vacuum and many more related issues are deemed by his followers to be essential to the evolution of physics The phrase Lives On was chosen in the title of this volume to claim ignored portions of his work are relevant to implementing the Paradigm Shift to an Einsteinian Unified Field Theory Specifically chapters about the Dirac Hypertube Tight Bound States and Spacetime programming provide required insights into crossing the dimensional barrier and proving parts of M Theoretic dimensionality As happens periodically in the history of science we live in a climate where coloring outside the box can have severe myopic consequences such as difficulties in passing PhD exams challenges in grant approval or problems in receiving tenure Since there is no conflict with Gauge Theory once realized many chapters in this important volume will aid in facilitating progress in physics beyond the Standard Model

Perspectives in Mathematical Sciences Yisong Yang, Jinqiao Duan, Xinchu Fu, 2010

- 1 Periodic boundary problems for analytic function including automorphic functions Haitao Cai and Jian Ke Lu
- 2 Subharmonic bifurcations and chaos for a model of micro cantilever in MEMS Yushu Chen Liangqiang Zhou and Fangqi Chen
- 3 Canonical sample spaces for random dynamical systems Jinqiao Duan Xingye Kan and Bjorn Schmalfuss
- 4 Epidemic propagation dynamics on complex networks Xinchu Fu et al
- 5 Inverse problems for equations of parabolic type Zhibin Han Yongzhong Huang and Ming Jian
- 6 The existence and asymptotic properties of nontrivial solutions of nonlinear 2 q Laplacian type problems with linking geometric structure Gongbao Li and Zhaofen Shen
- 7 Chaotic dynamics for the two component Bose Einstein condensate system Jibin Li
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- 9 Mathematical aspects of the cold plasma model Thomas H Otway
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- 11 Hamiltonian constraint and Mandelstam identities over extended knot families symbol and symbol in extended loop gravity Dan Shao Liang Shao and Changgui Shao
- 12 Lattice Boltzmann simulation of nonlinear Schrödinger equation with variable coefficients Baochang Shi
- 13 Exponential stability of nonlocal time delayed burgers equation Yanbin Tang
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- 15 A new GL method for mathematical and physical problems Ganquan Xie and Jianhua Li
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Faster Than Light H. David Froning, Jr., 2019-11-12

An amazing book on faster than light flight H David Froning a 30 year veteran engineer who worked on several designs for future space travel propulsion gives us this exceptional compilation of his discoveries struggles and experiences in the realm of faster than light space travel Central to the concept of faster than light travel is that the vacuum of space itself the spacetime metric can be utilized in propulsion systems Engineering the vacuum as this is called involves discovering how space can be altered to provide energy thrust for future spacecraft Packed with diagrams some of which show how as a starship accelerates away from Earth it disappears and reappears in only seconds But during these seconds of disappearance the ship in effect leaps high above space time and over stupendous distances to reach speeds that are billions

of times greater than light speed Lots of great material on quantum vacuum power anti gravity propulsion effects the velocity of light in spacetime altered regions effective mass in spacetime altered regions warp drives and tons more

Memorial Volume For Shoucheng Zhang Xiaoliang Qi,Biao Lian,Eugene Demler,Steven Kivelson,Chao Xing Liu,2021-08-24 This book honors the remarkable science and life of Shoucheng Zhang a condensed matter theorist known for his work on topological insulators the quantum Hall effect spintronics superconductivity and other fields It contains the contributions displayed at the Shoucheng Zhang Memorial Workshop held on May 2 4 2019 at Stanford University

Artificial Gauge Fields with Ultracold Atoms in Optical Lattices Monika Aidelsburger,2015-12-14 This work reports on the generation of artificial magnetic fields with ultracold atoms in optical lattices using laser assisted tunneling as well as on the first Chern number measurement in a non electronic system It starts with an introduction to the Hofstadter model which describes the dynamics of charged particles on a square lattice subjected to strong magnetic fields This model exhibits energy bands with non zero topological invariants called Chern numbers a property that is at the origin of the quantum Hall effect The main part of the work discusses the realization of analog systems with ultracold neutral atoms using laser assisted tunneling techniques both from a theoretical and experimental point of view Staggered homogeneous and spin dependent flux distributions are generated and characterized using two dimensional optical super lattice potentials Additionally their topological properties are studied via the observation of bulk topological currents The experimental techniques presented here offer a unique setting for studying topologically non trivial systems with ultracold atoms

Biomat 2014 - International Symposium On Mathematical And Computational Biology Rubem P Mondaini,2015-06-22 This is a book of a series on interdisciplinary topics on the Mathematical and Biological Sciences The chapters correspond to selected papers on special research themes which have been presented at BIOMAT 2014 International Symposium on Mathematical and Computational Biology which was held in the Stefan Banach International Mathematical Centre at Bedlewo near Poznan Poland on November 03 07 2014 The treatment is both pedagogical yet advanced in order to motivate research students as well as to fulfill the requirements of professional practitioners As in the other volumes of this series there are new important results on the interdisciplinary fields of mathematical and biological sciences and comprehensive reviews written by prominent scientific leaders of famous research groups

Topics in Statistical and Theoretical Physics R. L. Dobrushin,1996

Nonlinear Functional Analysis and its Applications E. Zeidler,2013-12-01 The main concern in all scientific work must be the human being himself This one should never forget among all those diagrams and equations Albert Einstein This volume is part of a comprehensive presentation of nonlinear functional analysis the basic content of which has been outlined in the Preface of Part I A Table of Contents for all five volumes may also be found in Part I The Part IV and the following Part V contain applications to mathematical present physics Our goals are the following i A detailed motivation of the basic equations in important disciplines of theoretical physics ii A discussion of particular problems which have played a significant role in the

development of physics and through which important mathematical and physical insight may be gained iii A combination of classical and modern ideas iv An attempt to build a bridge between the language and thoughts of physicists and mathematicians We shall always try to advance as soon as possible to the heart of the problem under consideration and to concentrate on the basic ideas

Riemann, Topology, and Physics Michael I. Monastyrsky, 2010-11-02 [The Universal Coefficient Theorem and Quantum Field Theory](#) Andrei-Tudor Patrascu, 2016-09-23 This thesis describes a new connection between algebraic geometry topology number theory and quantum field theory It offers a pedagogical introduction to algebraic topology allowing readers to rapidly develop basic skills and it also presents original ideas to inspire new research in the quest for dualities Its ambitious goal is to construct a method based on the universal coefficient theorem for identifying new dualities connecting different domains of quantum field theory This thesis opens a new area of research in the domain of non perturbative physics one in which the use of different coefficient structures in co homology may lead to previously unknown connections between different regimes of quantum field theories The origin of dualities is an issue in fundamental physics that continues to puzzle the research community with unexpected results like the AdS CFT duality or the ER EPR conjecture This thesis analyzes these observations from a novel and original point of view mainly based on a fundamental connection between number theory and topology Beyond its scientific qualities it also offers a pedagogical introduction to advanced mathematics and its connection with physics This makes it a valuable resource for students in mathematical physics and researchers wanting to gain insights into co homology theories with coefficients or the way in which Grothendieck's work may be connected with physics

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