

CLASS FIELD THEORY

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Class Field Theory Georges Gras, 2013-11-11 Global class field theory is a major achievement of algebraic number theory based on the functorial properties of the reciprocity map and the existence theorem. This book explores the consequences and the practical use of these results in detailed studies and illustrations of classical subjects. In the corrected second printing 2005 the author improves many details all through the book.

Class Field Theory Emil Artin, John Torrence Tate, 1990-01-01

The Abel Prize 2008-2012 Helge Holden, Ragni Piene, 2014-01-21 Covering the years 2008-2012, this book profiles the life and work of recent winners of the Abel Prize: John G. Thompson and Jacques Tits (2008), Mikhail Gromov (2009), John T. Tate Jr. (2010), John W. Milnor (2011), Endre Szemerédi (2012). The profiles feature autobiographical information as well as a description of each mathematician's work. In addition, each profile contains a complete bibliography, a curriculum vitae, as well as photos, old and new. As an added feature, interviews with the Laureates are presented on an accompanying web site: <http://extras.springer.com>. The book also presents a history of the Abel Prize written by the historian Kim Hjeltnes and includes a facsimile of a letter from Niels Henrik Abel which is transcribed, translated into English, and placed into historical perspective by Christian Skau. This book follows on *The Abel Prize 2003-2007: The First Five Years* (Springer, 2010) which profiles the work of the first Abel Prize winners.

Galois Theory and Modular Forms Ki-ichiro Hashimoto, Katsuya Miyake, Hiroaki Nakamura, 2013-12-01 This volume is an outgrowth of the research project 'The Inverse Galois Problem and its Application to Number Theory' which was carried out in three academic years from 1999 to 2001 with the support of the Grant-in-Aid for Scientific Research B (1 No. 11440013). In September 2001 an international conference 'Galois Theory and Modular Forms' was held at Tokyo Metropolitan University after some preparatory workshops and symposia in previous years. The title of this book came from that of the conference and the authors were participants of those meetings. All of the articles here were critically refereed by experts. Some of these articles give well-prepared surveys on branches of research areas and many articles aim to bear the latest research results accompanied with carefully written expository introductions. When we started our research project we picked up three areas to investigate under the key word 'Galois groups': namely generic polynomials to be applied to number theory, Galois coverings of algebraic curves to study new types of representations of absolute Galois groups, and explicitly described Shimura varieties to understand well the Galois structures of some interesting polynomials including Brumer's sextic for the alternating group of degree 5. The topics of the articles in this volume are widely spread as a result. At a first glance some readers may think this book somewhat unfocused.

Knots and Primes Masanori Morishita, 2024-05-27 This book provides a foundation for arithmetic topology, a new branch of mathematics that investigates the analogies between the topology of 3-manifolds and the arithmetic of number fields. Arithmetic topology is now becoming a powerful guiding principle and driving force to obtain parallel results and new insights between 3-dimensional geometry and number theory. After an informative introduction to Gauss's work in which

arithmetic topology originated the text reviews a background from both topology and number theory The analogy between knots in 3 manifolds and primes in number rings the founding principle of the subject is based on the tale topological interpretation of primes and number rings On the basis of this principle the text explores systematically intimate analogies and parallel results of various concepts and theories between 3 dimensional topology and number theory The presentation of these analogies begins at an elementary level gradually building to advanced theories in later chapters Many results presented here are new and original References are clearly provided if necessary and many examples and illustrations are included Some useful problems are also given for future research All these components make the book useful for graduate students and researchers in number theory low dimensional topology and geometry This second edition is a corrected and enlarged version of the original one Misprints and mistakes in the first edition are corrected references are updated and some expositions are improved Because of the remarkable developments in arithmetic topology after the publication of the first edition the present edition includes two new chapters One is concerned with idelic class field theory for 3 manifolds and number fields The other deals with topological and arithmetic Dijkgraaf Witten theory which supports a new bridge between arithmetic topology and mathematical physics

Algorithmic Number Theory J. P. Buhler, P. Stevenhagen, 2008-10-20 An introduction to number theory for beginning graduate students with articles by the leading experts in the field

Theory of Quantum Liquids Philippe Nozieres, David Pines, 1994-06-21 Originally published as two separate volumes The Theory of Quantum Liquids is a classic text that attempts to describe the qualitative and unifying aspects of an extremely broad and diversified field Volume I deals with normal Fermi liquids such as ^3He and electrons in metals Volume II consists of a detailed treatment of Bose condensation and liquid ^4He including the development of a Bose liquid theory and a microscopic basis for the two fluid model and the description of the elementary excitations of liquid HeII

Classical Charged Particles Fritz Rohrlich, 2020-01-20 Widely discussed in the theory of classical point charges are the difficulties of divergent self energy self accelerating solutions and pre acceleration This book explains the theory in the context of quantum electrodynamics the neutral particle limit and coherence with neighboring theories

Electrodynamics Of Particles And Plasmas Phillip C Clemmow, 2018-03-05 The classical electrodynamics of point charges has a long history There has arisen a new discipline now usually called plasma physics This book's aim is to present an account that would give the reader a firm theoretical grounding in the subject

Theory Of Quantum Liquids David Pines, 2018-03-09 This book is concerned with a single group of quantum liquids normal Fermi liquids discussing the nature of elementary excitations the central concept of response functions It is intended as a text for a graduate course in quantum statistical mechanics or low temperature theory

Structural Stability And Morphogenesis Rene Thom, 2018-03-05 First Published in 1975 It is now some fifteen years since *Structural Stability and Morphogenesis* was first published in the French edition The purely mathematical theory of singularities of smooth maps has developed tremendously in that time however the main interest of this book lies not in its

mathematics but in the methodological perspective opened up by Catastrophe Theory models

Phenomenology of Particle Physics André Rubbia, 2022-05-12 Written for a two semester Master's or graduate course this comprehensive treatise intertwines theory and experiment in an original approach that covers all aspects of modern particle physics The author uses rigorous step by step derivations and provides more than 100 end of chapter problems for additional practice to ensure that students will not only understand the material but also be able to apply their knowledge Featuring up to date experimental material including the discovery of the Higgs boson at CERN and of neutrino oscillations this monumental volume also serves as a one stop reference for particle physics researchers of all levels and specialties Richly illustrated with more than 450 figures the text guides students through all the intricacies of quantum mechanics and quantum field theory in an intuitive manner that few books achieve

Hydrodynamic Fluctuations, Broken Symmetry, And Correlation Functions Dieter Forster, 2018-03-08 From the Preface The purpose of this book is to present and apply a language and to discuss methods which make it very convenient to exploit such analogies and which are uniquely suited to describe and explain non equilibrium phenomena in a rich variety of many particle systems the language of time correlation functions and linear response theory

A Course in Computational Algebraic Number Theory Henri Cohen, 2013-04-17 With the advent of powerful computing tools and numerous advances in mathematics computer science and cryptography algorithmic number theory has become an important subject in its own right Both external and internal pressures gave a powerful impetus to the development of more powerful algorithms These in turn led to a large number of spectacular breakthroughs To mention but a few the LLL algorithm which has a wide range of applications including real world applications to integer programming primality testing and factoring algorithms sub exponential class group and regulator algorithms etc Several books exist which treat parts of this subject It is essentially impossible for an author to keep up with the rapid pace of progress in all areas of this subject Each book emphasizes a different area corresponding to the author's tastes and interests The most famous but unfortunately the oldest is Knuth's Art of Computer Programming especially Chapter 4 The present book has two goals First to give a reasonably comprehensive introductory course in computational number theory In particular although we study some subjects in great detail others are only mentioned but with suitable pointers to the literature Hence we hope that this book can serve as a first course on the subject A natural sequel would be to study more specialized subjects in the existing literature

K-theory Michael Atiyah, 2018-03-05 These notes are based on the course of lectures I gave at Harvard in the fall of 1964 They constitute a self contained account of vector bundles and K theory assuming only the rudiments of point set topology and linear algebra One of the features of the treatment is that no use is made of ordinary homology or cohomology theory In fact rational cohomology is defined in terms of K theory The theory is taken as far as the solution of the Hopf invariant problem and a start is made on the J homomorphism In addition to the lecture notes proper two papers of mine published since 1964 have been reproduced at the end The first dealing with operations is a natural supplement to the

material in Chapter III It provides an alternative approach to operations which is less slick but more fundamental than the Grothendieck method of Chapter III and it relates operations and filtration Actually the lectures deal with compact spaces not cell complexes and so the skeleton filtration does not figure in the notes The second paper provides a new approach to K theory and so fills an obvious gap in the lecture notes American Journal of Mathematics ,1995 **Quantum Field**

Theory Eduardo Fradkin,2021-03-23 Quantum field theory is the mathematical and conceptual framework that describes the physics of the very small including subatomic particles and quasiparticles It is used to address a range of problems across subfields from high energy physics and gravitation to statistical physics and condensed matter physics Despite the breadth of its applications however the teaching of quantum field theory has historically been strongly oriented toward high energy physics students while others particularly in condensed matter and statistical physics are typically taught in a separate course or take an alternate sequence in many body and statistical physics Author Eduardo Fradkin strongly believes that this separation is both artificial and detrimental to all groups understanding of quantum field theory This textbook developed from a graduate course Fradkin has taught for decades at the University of Illinois offers a new multicultural approach to the subject that seeks to remedy this fragmentation It covers both basic techniques and topics at the frontiers of current research and integrates modern concepts and examples from high energy statistical and condensed matter physics alike Extensive problem sets further illustrate applications across a range of subfields The book will be suitable for students across physical subdisciplines who have mastered graduate level quantum mechanics and will be a useful reference for researchers

Lectures Of Sidney Coleman On Quantum Field Theory: Foreword By David Kaiser Bryan Gin-ge 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 WilczekNobel Laureate in Physics 2004Sidney 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 **Classical Field Theory** Joel Franklin,2017-04-27 Special relativity Point particle fields Field Lagrangians Gravity *Quantum Mechanics* Kurt Gottfried,2018-03-09 This book contains discussions of radiation theory quantum statistics and the many body problem and

more advanced topics in collision theory It is intended as a text for a first year graduate quantum mechanics course

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