Taming Wild Extensions: Hopf Algebras and Local Galois Module Theory

Lindsay N. Childs

Taming Wild Extensions Hopf Algebras And Local Galois Module Theory

Jordi Guàrdia,Nicuşor Minculete,Diana Savin,Montserrat Vela,Abdelkader Zekhnini

Taming Wild Extensions Hopf Algebras And Local Galois Module Theory:

    Taming Wild Extensions: Hopf Algebras and Local Galois Module Theory Lindsay Childs,2000 This book studies Hopf algebras over valuation rings of local fields and their application to the theory of wildly ramified extensions of local fields The results not previously published in book form show that Hopf algebras play a natural role in local Galois module theory Included in this work are expositions of short exact sequences of Hopf algebras Hopf Galois structures on separable field extensions a generalization of Noether s theorem on the Galois module structure of tamely ramified extensions of local fields to wild extensions acted on by Hopf algebras connections between tameness and being Galois for algebras acted on by a Hopf algebra constructions by Larson and Greither of Hopf orders over valuation rings ramification criteria of Byott and Greither for the associated order of the valuation ring of an extension of local fields to be Hopf order the Galois module structure of wildly ramified cyclic extensions of local fields of degree p and p2 and Kummer theory of formal groups Beyond a general background in graduate level algebra some chapters assume an acquaintance with some algebraic number theory From there this exposition serves as an excellent resource and motivation for further work in the field   *Taming Wild Extensions* Lindsay Childs,2014-05-22 This text studies Hopf algebras over valuation rings of local fields and their application to the theory of wildly ramified extensions of local fields The results not previously published in book form show that Hopf algebras play a natural role in local Galois module theory Included in this work are expositions of short exact sequences of Hopf algebras Hopf Galois structures on separable field extensions a generalization of Noether s theorem on the Galois module structure of tamely ramified extensions of local fields to wild extensions acted on by Hopf algebras connections between tameness and being Galois for algebras acted on by a Hopf algebra constructions by Larson and Greither of Hopf orders over valuation rings ramification criteria of Byott and Greither for the associated order of the valuation ring of an extension of local fields to be Hopf order the Galois module structure of wildly ramified cyclic extensions of local fields of degree p and p2 and Kummer theory of formal groups Beyond a general background in graduate level algebra some chapters assume an acquaintance with some algebraic number theory   **Hopf Algebras and Galois Module Theory** Lindsay N. Childs,Cornelius Greither,Kevin P. Keating,Alan Koch,Timothy Kohl,Paul J. Truman,Robert G. Underwood,2021-11-10 Hopf algebras have been shown to play a natural role in studying questions of integral module structure in extensions of local or global fields This book surveys the state of the art in Hopf Galois theory and Hopf Galois module theory and can be viewed as a sequel to the first author s book Taming Wild Extensions Hopf Algebras and Local Galois Module Theory which was published in 2000 The book is divided into two parts Part I is more algebraic and focuses on Hopf Galois structures on Galois field extensions as well as the connection between this topic and the theory of skew braces Part II is more number theoretical and studies the application of Hopf algebras to questions of integral module structure in extensions of local or global fields Graduate students and researchers with a general background in graduate level algebra algebraic number theory and some

familiarity with Hopf algebras will appreciate the overview of the current state of this exciting area and the suggestions for numerous avenues for further research and investigation **Publications mathématiques de Besançon N° 1/2010** Patrick Hild,2010-03 *Advances in Hopf Algebras* Jeffrey Bergen,Susan Montgomery,2023-08-18 This remarkable reference covers topics such as quantum groups Hopf Galois theory actions and coactions of Hopf algebras smash and crossed products and the structure of cosemisimple Hopf algebras **Fundamentals of Hopf Algebras** Robert G. Underwood,2015-06-10 This text aims to provide graduate students with a self contained introduction to topics that are at the forefront of modern algebra namely coalgebras bialgebras and Hopf algebras The last chapter Chapter 4 discusses several applications of Hopf algebras some of which are further developed in the author s 2011 publication An Introduction to Hopf Algebras The book may be used as the main text or as a supplementary text for a graduate algebra course Prerequisites for this text include standard material on groups rings modules algebraic extension fields finite fields and linearly recursive sequences The book consists of four chapters Chapter 1 introduces algebras and coalgebras over a field K Chapter 2 treats bialgebras Chapter 3 discusses Hopf algebras and Chapter 4 consists of three applications of Hopf algebras Each chapter begins with a short overview and ends with a collection of exercises which are designed to review and reinforce the material Exercises range from straightforward applications of the theory to problems that are devised to challenge the reader Questions for further study are provided after selected exercises Most proofs are given in detail though a few proofs are omitted since they are beyond the scope of this book **Trends in Number Theory** Fernando Chamizo,Jordi Guàrdia, Antonio Rojas-León,José María Tornero,2015-09-28 This volume contains the proceedings of the Fifth Spanish Meeting on Number Theory held from July 8 12 2013 at the Universidad de Sevilla Sevilla Spain The articles contained in this book give a panoramic vision of the current research in number theory both in Spain and abroad Some of the topics covered in this volume are classical algebraic number theory arithmetic geometry and analytic number theory This book is published in cooperation with Real Sociedad Matem tica Espa ola RSME **An Introduction to Hopf Algebras** Robert G. Underwood,2011-08-30 Only book on Hopf algebras aimed at advanced undergraduates **Algebras, Rings and Modules** Michiel Hazewinkel,Nadezhda Mikhaĭlovna Gubareni,Vladimir V. Kirichenko,2010 Presenting an introduction to the theory of Hopf algebras the authors also discuss some important aspects of the theory of Lie algebras This book includes a chapters on the Hopf algebra of symmetric functions the Hopf algebra of representations of the symmetric groups the Hopf algebras of the nonsymmetric and quasisymmetric functions and the Hopf algebra of permutations Advances in Algebra Jörg Feldvoss,Lauren Grimley,Drew Lewis,Andrei Pavelescu,Cornelius Pillen,2019-02-27 This proceedings volume covers a range of research topics in algebra from the Southern Regional Algebra Conference SRAC that took place in March 2017 Presenting theory as well as computational methods featured survey articles and research papers focus on ongoing research in algebraic geometry ring theory group theory and associative algebras Topics include algebraic groups combinatorial

commutative algebra computational methods for representations of groups and algebras group theory Hopf Galois theory hypergroups Lie superalgebras matrix analysis spherical and algebraic spaces and tropical algebraic geometry Since 1988 SRAC has been an important event for the algebra research community in the Gulf Coast Region and surrounding states building a strong network of algebraists that fosters collaboration in research and education This volume is suitable for graduate students and researchers interested in recent findings in computational and theoretical methods in algebra and representation theory *New Frontiers in Number Theory and Applications* Jordi Guàrdia,Nicuşor Minculete,Diana Savin,Montserrat Vela,Abdelkader Zekhnini,2024-05-27 This contributed volume presents recent advances as well as new directions in number theory and its applications Algebraic and analytic number theory are the main focus with chapters showing how these areas are rapidly evolving By gathering authors from over seven countries readers will gain an international perspective on the current state of research as well as potential avenues to explore Specific topics covered include Algebraic Number Theory Elliptic curves and Cryptography Hopf Galois theory Analytic and elementary number theory and applications New Frontiers in Number Theory and Applications will appeal to researchers interested in gaining a global view of current research in number theory Galois Extensions of Structured Ring Spectra/Stably Dualizable Groups John Rognes,2008 The author introduces the notion of a Galois extension of commutative S algebras E_ infty ring spectra often localized with respect to a fixed homology theory There are numerous examples including some involving Eilenberg Mac Lane spectra of commutative rings real and complex topological K theory Lubin Tate spectra and cochain S algebras He establishes the main theorem of Galois theory in this generality Its proof involves the notions of separable and etale extensions of commutative S algebras and the Goerss Hopkins Miller theory for E_ infty mapping spaces He shows that the global sphere spectrum S is separably closed using Minkowski s discriminant theorem and he estimates the separable closure of its localization with respect to each of the Morava K theories He also defines Hopf Galois extensions of commutative S algebras and studies the complex cobordism spectrum MU as a common integral model for all of the local Lubin Tate Galois extensions The author extends the duality theory for topological groups from the classical theory for compact Lie groups via the topological study by J R Klein and the p complete study for p compact groups by T Bauer to a general duality theory for stably dualizable groups in the E local stable homotopy category for any spectrum E **Hopf Algebras, Quantum Groups and Yang-Baxter Equations** Florin Felix Nichita,2019-01-31 This book is a printed edition of the Special Issue Hopf Algebras Quantum Groups and Yang Baxter Equations that was published in Axioms Corings and Comodules Tomasz Brzezinski,Robert Wisbauer,2003-09-15 This is the first extensive treatment of the theory of corings and their comodules In the first part the module theoretic aspects of coalgebras over commutative rings are described Corings are then defined as coalgebras over non commutative rings Topics covered include module theoretic aspects of corings such as the relation of comodules to special subcategories of the category of modules sigma type categories connections between corings and

extensions of rings properties of new examples of corings associated to entwining structures generalisations of bialgebras such as bialgebroids and weak bialgebras and the appearance of corings in non commutative geometry **Sturm-Liouville Theory** Anton Zettl,2005 In 1836 1837 Sturm and Liouville published a series of papers on second order linear ordinary differential operators which started the subject now known as the Sturm Liouville problem In 1910 Hermann Weyl published an article which started the study of singular Sturm Liouville problems Since then the Sturm Liouville theory remains an intensely active field of research with many applications in mathematics and mathematical physics The purpose of the present book is a to provide a modern survey of some of the basic properties of Sturm Liouville theory and b to bring the reader to the forefront of knowledge about some aspects of this theory To use the book only a basic knowledge of advanced calculus and a rudimentary knowledge of Lebesgue integration and operator theory are assumed An extensive list of references and examples is provided and numerous open problems are given The list of examples includes those classical equations and functions associated with the names of Bessel Fourier Heun Ince Jacobi Jorgens Latzko Legendre Littlewood McLeod Mathieu Meissner Morse as well as examples associated with the harmonic oscillator and the hydrogen atom Many special functions of applied mathematics and mathematical physics occur in these examples **Arithmeticity in the Theory of Automorphic Forms** Goro Shimura,2000 Written by one of the leading experts venerable grandmasters and most active contributors ldots in the arithmetic theory of automorphic forms ldots the new material included here is mainly the outcome of his extensive work ldots over the last eight years ldots a very careful detailed introduction to the subject ldots this monograph is an important comprehensively written and profound treatise on some recent achievements in the theory Zentralblatt MATH The main objects of study in this book are Eisenstein series and zeta functions associated with Hecke eigenforms on symplectic and unitary groups After preliminaries including a section Notation and Terminology the first part of the book deals with automorphic forms on such groups In particular their rationality over a number field is defined and discussed in connection with the group action also the reciprocity law for the values of automorphic functions at CM points is proved Next certain differential operators that raise the weight are investigated in higher dimension The notion of nearly holomorphic functions is introduced and their arithmeticity is defined As applications of these the arithmeticity of the critical values of zeta functions and Eisenstein series is proved Though the arithmeticity is given as the ultimate main result the book discusses many basic problems that arise in number theoretical investigations of automorphic forms but that cannot be found in expository forms Examples of this include the space of automorphic forms spanned by cusp forms and certain Eisenstein series transformation formulas of theta series estimate of the Fourier coefficients of modular forms and modular forms of half integral weight All these are treated in higher dimensional cases The volume concludes with an Appendix and an Index The book will be of interest to graduate students and researchers in the field of zeta functions and modular forms Geometric Theory of Incompressible Flows with Applications to Fluid Dynamics Tian Ma,Shouhong Wang,2005 This monograph presents

a geometric theory for incompressible flow and its applications to fluid dynamics The main objective is to study the stability and transitions of the structure of incompressible flows and its applications to fluid dynamics and geophysical fluid dynamics The development of the theory and its applications goes well beyond its original motivation of the study of oceanic dynamics The authors present a substantial advance in the use of geometric and topological methods to analyze and classify incompressible fluid flows The approach introduces genuinely innovative ideas to the study of the partial differential equations of fluid dynamics One particularly useful development is a rigorous theory for boundary layer separation of incompressible fluids The study of incompressible flows has two major interconnected parts The first is the development of a global geometric theory of divergence free fields on general two dimensional compact manifolds The second is the study of the structure of velocity fields for two dimensional incompressible fluid flows governed by the Navier Stokes equations or the Euler equations Motivated by the study of problems in geophysical fluid dynamics the program of research in this book seeks to develop a new mathematical theory maintaining close links to physics along the way In return the theory is applied to physical problems with more problems yet to be explored The material is suitable for researchers and advanced graduate students interested in nonlinear PDEs and fluid dynamics   Yangians and Classical Lie Algebras Alexander Molev,2007 The Yangians and twisted Yangians are remarkable associative algebras taking their origins from the work of St Petersburg s school of mathematical physics in the 1980s This book is an introduction to the theory of Yangians and twisted Yangians with a particular emphasis on the relationship with the classical matrix Lie algebras   **Operads in Algebra, Topology and Physics** Martin Markl,Steven Shnider,James D. Stasheff,2002 Operads are mathematical devices which describe algebraic structures of many varieties and in various categories From their beginnings in the 1960s they have developed to encompass such areas as combinatorics knot theory moduli spaces string field theory and deformation quantization   Parametrized Homotopy Theory J. Peter May,Johann Sigurdsson,2006 This book develops rigorous foundations for parametrized homotopy theory which is the algebraic topology of spaces and spectra that are continuously parametrized by the points of a base space It also begins the systematic study of parametrized homology and cohomology theories The parametrized world provides the natural home for many classical notions and results such as orientation theory the Thom isomorphism Atiyah and Poincare duality transfer maps the Adams and Wirthmuller isomorphisms and the Serre and Eilenberg Moore spectral sequences But in addition to providing a clearer conceptual outlook on these classical notions it also provides powerful methods to study new phenomena such as twisted K theory and to make new constructions such as iterated Thom spectra Duality theory in the parametrized setting is particularly illuminating and comes in two flavors One allows the construction and analysis of transfer maps and a quite different one relates parametrized homology to parametrized cohomology The latter is based formally on a new theory of duality in symmetric bicategories that is of considerable independent interest The text brings together many recent developments in homotopy theory It provides a highly structured theory of parametrized spectra and it

extends parametrized homotopy theory to the equivariant setting The theory of topological model categories is given a more thorough treatment than is available in the literature This is used together with an interesting blend of classical methods to resolve basic foundational problems that have no nonparametrized counterparts

The book delves into Taming Wild Extensions Hopf Algebras And Local Galois Module Theory. Taming Wild Extensions Hopf Algebras And Local Galois Module Theory is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Taming Wild Extensions Hopf Algebras And Local Galois Module Theory, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

   ○ Chapter 1: Introduction to Taming Wild Extensions Hopf Algebras And Local Galois Module Theory
   ○ Chapter 2: Essential Elements of Taming Wild Extensions Hopf Algebras And Local Galois Module Theory
   ○ Chapter 3: Taming Wild Extensions Hopf Algebras And Local Galois Module Theory in Everyday Life
   ○ Chapter 4: Taming Wild Extensions Hopf Algebras And Local Galois Module Theory in Specific Contexts
   ○ Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Taming Wild Extensions Hopf Algebras And Local Galois Module Theory. The first chapter will explore what Taming Wild Extensions Hopf Algebras And Local Galois Module Theory is, why Taming Wild Extensions Hopf Algebras And Local Galois Module Theory is vital, and how to effectively learn about Taming Wild Extensions Hopf Algebras And Local Galois Module Theory.

3. In chapter 2, the author will delve into the foundational concepts of Taming Wild Extensions Hopf Algebras And Local Galois Module Theory. The second chapter will elucidate the essential principles that need to be understood to grasp Taming Wild Extensions Hopf Algebras And Local Galois Module Theory in its entirety.

4. In chapter 3, the author will examine the practical applications of Taming Wild Extensions Hopf Algebras And Local Galois Module Theory in daily life. This chapter will showcase real-world examples of how Taming Wild Extensions Hopf Algebras And Local Galois Module Theory can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Taming Wild Extensions Hopf Algebras And Local Galois Module Theory in specific contexts. The fourth chapter will explore how Taming Wild Extensions Hopf Algebras And Local Galois Module Theory is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Taming Wild Extensions Hopf Algebras And Local Galois Module Theory. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Taming Wild Extensions Hopf Algebras And Local Galois Module Theory.

Table of Contents Taming Wild Extensions Hopf Algebras And Local Galois Module Theory

Taming Wild Extensions Hopf Algebras And Local Galois Module Theory Introduction

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