lecture notes in pure and applied mathematics

rings, Hopf algebras, and Brauer groups

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Rings Hopf Algebras And Brauer Groups

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Rings Hopf Algebras And Brauer Groups:

    <u>Rings, Hopf Algebras, and Brauer Groups</u> Stefaan Caenepeel,A Verschoren,2020-09-29 Based on papers presented at a recent international conference on algebra and algebraic geometry held jointly in Antwerp and Brussels Belgium Presents both survey and research articles featuring new results from the intersection of algebra and geometry *Brauer Groups, Hopf Algebras, and Galois Theory* Stefaan Caenepeel,1998 This volume is devoted to the Brauer group of a commutative ring and related invariants Part I presents a self contained exposition of the Brauer group of a commutative ring Included is a systematic development of the theory of Grothendieck topologies and etale cohomology and discussion of topics such as Gabber s theorem and the theory of Taylor s big Brauer group of algebras without a unit Part II presents a systematic development of the Galois theory of Hopf algebras with special emphasis on the group of Galois objects of a cocommutative Hopf algebra <u>Brauer Groups, Hopf Algebras and Galois Theory</u> Stefaan Caenepeel,2002-03-31 This volume is devoted to the Brauer group of a commutative ring and related invariants Part I presents a new self contained exposition of the Brauer group of a commutative ring Included is a systematic development of the theory of Grothendieck topologies and tale cohomology and discussion of topics such as Gabber s theorem and the theory of Taylor s big Brauer group of algebras without a unit Part II presents a systematic development of the Galois theory of Hopf algebras with special emphasis on the group of Galois objects of a cocommutative Hopf algebra The development of the theory is carried out in such a way that the connection to the theory of the Brauer group in Part I is made clear Recent developments are considered and examples are included The Brauer Long group of a Hopf algebra over a commutative ring is discussed in Part III This provides a link between the first two parts of the volume and is the first time this topic has been discussed in a monograph Audience Researchers whose work involves group theory The first two parts in particular can be recommended for supplementary graduate course use **Hopf Algebras in Noncommutative Geometry and Physics** Stefaan Caenepeel,Fred Van Oystaeyen,2019-05-07 This comprehensive reference summarizes the proceedings and keynote presentations from a recent conference held in Brussels Belgium Offering 1155 display equations this volume contains original research and survey papers as well as contributions from world renowned algebraists It focuses on new results in classical Hopf algebras as well as the <u>Taming Wild Extensions: Hopf Algebras and Local Galois Module Theory</u> 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 *Hopf Algebras* Jeffrey Bergen,Stefan Catoiu,William Chin,2004-01-28 This volume publishes key proceedings from the recent International Conference on Hopf Algebras held at DePaul University Chicago Illinois With contributions from leading researchers in the field this collection deals with current topics ranging from categories of infinitesimal Hopf modules and bimodules to the construction of a Hopf algebraic **Hopf Algebras and Quantum Groups** Stefaan Caenepeel,Freddy Van Oystaeyen,2019-05-07 This volume is based on the proceedings of the Hopf Algebras and Quantum Groups conference at the Free University of Brussels Belgium It presents state of the art papers selected from over 65 participants representing nearly 20 countries and more than 45 lectures on the theory of Hopf algebras including multiplier Hopf algebras and quantum g **Algebra And Number Theory** Mohammed Boulagouaz,Jean-Pierre Tignol,1999-11-09 This study demonstrates the key manipulations surrounding Brauer groups graded rings group representations ideal classes of number fields p adic differential equations and rationality problems of invariant fields displaying a command of the most advanced methods in algebra It describes new developments in noncommutative valuation theory and **Ring Theory And Algebraic Geometry** A. Granja,J.A. Hermida Alonso,A Verschoren,2001-05-08 Focuses on the interaction between algebra and algebraic geometry including high level research papers and surveys contributed by over 40 top specialists representing more than 15 countries worldwide Describes abelian groups and lattices algebras and binomial ideals cones and fans affine and projective algebraic varieties simplicial and cellular complexes polytopes and arithmetics *New Directions in Hopf Algebras* Susan Montgomery,Hans-Jurgen Schneider,2002-05-06 Hopf algebras have important connections to quantum theory Lie algebras knot and braid theory operator algebras and other areas of physics and mathematics They have been intensely studied in the past in particular the solution of a number of conjectures of Kaplansky from the 1970s has led to progress on the classification of semisimple Hopf algebras and on the structure of pointed Hopf algebras Among the topics covered are results toward the classification of finite dimensional Hopf algebras semisimple and non semisimple as well as what is known about the extension theory of Hopf algebras Some papers consider Hopf versions of classical topics such as the Brauer group while others are closer to work in quantum groups The book also explores the connections and applications of Hopf algebras to other fields P-Adic Functional Analysis A.K. Katsaras,W.H. Schikhof,L. Van Hamme,2001-07-03 This volume collects together lectures presented at the Sixth International Conference held at the University of Ioannina Greece on p adic functional analysis with applications in the fields of physics differential equations number theory probability theory dynamical systems and algebraic number fields It discusses the commutation relation AB BA I and its central role in quantum

mechanics **Quantum Lie Theory** Vladislav Kharchenko,2015-12-24 This is an introduction to the mathematics behind the phrase quantum Lie algebra The numerous attempts over the last 15 20 years to define a quantum Lie algebra as an elegant algebraic object with a binary quantum Lie bracket have not been widely accepted In this book an alternative approach is developed that includes multivariable operations Among the problems discussed are the following a PBW type theorem quantum deformations of Kac Moody algebras generic and symmetric quantum Lie operations the Nichols algebras the Gurevich Manin Lie algebras and Shestakov Umirbaev operations for the Lie theory of nonassociative products Opening with an introduction for beginners and continuing as a textbook for graduate students in physics and mathematics the book can also be used as a reference by more advanced readers With the exception of the introductory chapter the content of this monograph has not previously appeared in book form **Partial Differential Equations On Multistructures** Felix Mehmeti,Joachim Von Below,Serge Nicaise,2001-04-10 This text is based on lectures presented at the International Conference on Partial Differential Equations PDEs on Multistructures held in Luminy France It contains advances in the field compiling research on the analyses and applications of multistructures including treatments of classical theories specific characterizations and modellings of multistructures and discussions on uses in physics electronics and biology **Control Of Nonlinear Distributed Parameter Systems** Goong Chen,Irena Lasiecka,Jianxin Zhou,2001-03-14 An examination of progress in mathematical control theory applications It provides analyses of the influence and relationship of nonlinear partial differential equations to control systems and contains state of the art reviews including presentations from a conference co sponsored by the National Science Foundation the Institute of Mathematics a **Evolution Equations and Their Applications in Physical and Life Sciences** G Lumer,2019-04-24 This volume presents a collection of lectures on linear partial differntial equations and semigroups nonlinear equations stochastic evolutionary processes and evolution problems from physics engineering and mathematical biology The contributions come from the 6th International Conference on Evolution Equations and Their Applications in Physica **Shape Optimization And Optimal Design** John Cagnol,Michael P. Polis,Jean-Paul Zolesio,2017-08-02 This volume presents developments and advances in modelling passive and active control systems governed by partial differential equations It emphasizes shape analysis optimal shape design controllability nonlinear boundary control and stabilization The authors include essential data on exact boundary controllability of thermoelastic plates with variable transmission coefficients **Function Spaces** Henryk Hudzik,Leszek Skrzypcazk,2000-07-18 This volume compiles research results from the fifth Function Spaces International Conference held in Poznan Poland It presents key advances modern applications and analyses of function spaces and contains two special sections recognizing the contributions and influence of Wladyslaw Orlicz and Genadil Lozanowskii Finite or Infinite Dimensional Complex Analysis Joji Kajiwara,Zhong Li,Kwang Ho Shon,2019-05-07 This volume presents the proceedings of the Seventh International Colloquium on Finite or Infinite Dimensional Complex Analysis held in Fukuoka Japan The

contributions offer multiple perspectives and numerous research examples on complex variables Clifford algebra variables hyperfunctions and numerical analysis **Wavelet Analysis and Multiresolution Methods** Tian-Xiao He,2000-05-05 This volume contains papers selected from the Wavelet Analysis and Multiresolution Methods Session of the AMS meeting held at the University of Illinois at Urbana Champaign The contributions cover construction analysis computation and application of multiwavelets scaling vectors nonhomogenous refinement mulivariate orthogonal and biorthogona **Advances in Commutative Ring Theory** David Dobbs,2023-08-25 Presents the proceedings of the recently held Third International Conference on Commutative Ring Theory in Fez Morocco Details the latest developments in commutative algebra and related areas featuring 26 original research articles and six survey articles on fundamental topics of current interest Examines wide ranging developments in commutative algebra together with connections to algebraic number theory and algebraic geometry

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