

ALGEBRA AND APPLICATIONS

Alexander Levin

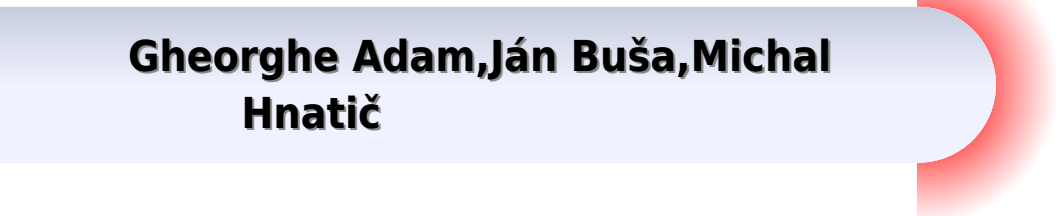
Difference Algebra



Springer

Difference Algebra Algebra And Applications

**Gheorghe Adam, Ján Buša, Michal
Hnatič**



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Difference Algebra Alexander Levin, 2008-04-19 Difference algebra grew out of the study of algebraic difference equations with coefficients from functional fields The first stage of this development of the theory is associated with its founder J F Ritt 1893 1951 and R Cohn whose book Difference Algebra 1965 remained the only fundamental monograph on the subject for many years Nowadays difference algebra has overgrown the frame of the theory of ordinary algebraic difference equations and appears as a rich theory with applications to the study of equations in finite differences functional equations differential equations with delay algebraic structures with operators group and semigroup rings The monograph is intended for graduate students and researchers in difference and differential algebra commutative algebra ring theory and algebraic geometry The book is self contained it requires no prerequisites other than the knowledge of basic algebraic concepts and a mathematical maturity of an advanced undergraduate

Mathematical Modeling and Computational Science Gheorghe Adam, Ján Buša, Michal Hnatič, 2012-02-21 This book constitutes the refereed post proceedings of the International Conference on Mathematical Modeling and Computational Physics MMCP 2011 held in Star Lesn Slovakia in July 2011 The 41 revised papers presented were carefully reviewed and selected from numerous submissions They are organized in topical sections on mathematical modeling and methods numerical modeling and methods computational support of the experiments computing tools and optimization and simulation

Algebraic Methods: Theory, Tools and Applications Martin Wirsing, Jan A. Bergstra, 1989-09-20

Arithmetic and Geometry over Local Fields Bruno Anglès, Tuan Ngo Dac, 2021-03-03 This volume introduces some recent developments in Arithmetic Geometry over local fields Its seven chapters are centered around two common themes the study of Drinfeld modules and non Archimedean analytic geometry The notes grew out of lectures held during the research program Arithmetic and geometry of local and global fields which took place at the Vietnam Institute of Advanced Study in Mathematics VIASM from June to August 2018 The authors leading experts in the field have put great effort into making the text as self contained as possible introducing the basic tools of the subject The numerous concrete examples and suggested research problems will enable graduate students and young researchers to quickly reach the frontiers of this fascinating branch of mathematics

Numerical and Symbolic Scientific Computing Ulrich Langer, Peter Paule, 2011-11-19 The book presents the state of the art and results and also includes articles pointing to future developments Most of the articles center around the theme of linear partial differential equations Major aspects are fast solvers in elastoplasticity symbolic analysis for boundary problems symbolic treatment of operators computer algebra and finite element methods a symbolic approach to finite difference schemes cylindrical algebraic decomposition and local Fourier analysis and white noise analysis for stochastic partial differential equations Further numerical symbolic topics range from applied and computational geometry to computer algebra methods used for total variation energy minimization

Handbook of Finite Fields Gary L. Mullen, Daniel Panario, 2013-06-17 Poised to

become the leading reference in the field the Handbook of Finite Fields is exclusively devoted to the theory and applications of finite fields More than 80 international contributors compile state of the art research in this definitive handbook Edited by two renowned researchers the book uses a uniform style and format throughout and **Applications of Lie Groups to Difference Equations** Vladimir Dorodnitsyn,2010-12-01 Intended for researchers numerical analysts and graduate students in various fields of applied mathematics physics mechanics and engineering sciences Applications of Lie Groups to Difference Equations is the first book to provide a systematic construction of invariant difference schemes for nonlinear differential equations A guide to methods *Algebraic Structures and Applications* Sergei Silvestrov,Anatoliy Malyarenko,Milica Rančić,2020-06-18 This book explores the latest advances in algebraic structures and applications and focuses on mathematical concepts methods structures problems algorithms and computational methods important in the natural sciences engineering and modern technologies In particular it features mathematical methods and models of non commutative and non associative algebras hom algebra structures generalizations of differential calculus quantum deformations of algebras Lie algebras and their generalizations semi groups and groups constructive algebra matrix analysis and its interplay with topology knot theory dynamical systems functional analysis stochastic processes perturbation analysis of Markov chains and applications in network analysis financial mathematics and engineering mathematics The book addresses both theory and applications which are illustrated with a wealth of ideas proofs and examples to help readers understand the material and develop new mathematical methods and concepts of their own The high quality chapters share a wealth of new methods and results review cutting edge research and discuss open problems and directions for future research Taken together they offer a source of inspiration for a broad range of researchers and research students whose work involves algebraic structures and their applications probability theory and mathematical statistics applied mathematics engineering mathematics and related areas *Discrete Systems and Integrability* J. Hietarinta,N. Joshi,F. W. Nijhoff,2016-09 A first introduction to the theory of discrete integrable systems at a level suitable for students and non experts **Computer-Aided Analysis of Difference Schemes for Partial Differential Equations** Victor G. Ganzha,E. V. Vorozhtsov,2011-03-01 Advances in computer technology have conveniently coincided with trends in numerical analysis toward increased complexity of computational algorithms based on finite difference methods It is no longer feasible to perform stability investigation of these methods manually and no longer necessary As this book shows modern computer algebra tools can be combined with methods from numerical analysis to generate programs that will do the job automatically Comprehensive timely and accessible this is the definitive reference on the application of computerized symbolic manipulations for analyzing the stability of a wide range of difference schemes In particular it deals with those schemes that are used to solve complex physical problems in areas such as gas dynamics heat and mass transfer catastrophe theory elasticity shallow water theory and more Introducing many new applications methods and concepts Computer Aided Analysis

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