CONTEMPORARY MATHEMATICS

Infinite Algebraic Extensions of Finite Fields

Joel V. Brawley and
George E. Schnibben

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Infinite Algebraic Extensions Of Finite Fields Contemporary Mathematics Vol 95

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Infinite Algebraic Extensions Of Finite Fields Contemporary Mathematics Vol 95:

Infinite Algebraic Extensions of Finite Fields Joel V. Brawley,George E. Schnibben,1989 Over the last several decades there has been a renewed interest in finite field theory partly as a result of important applications in a number of diverse areas such as electronic communications coding theory combinatorics designs finite geometries cryptography and other portions of discrete mathematics In addition a number of recent books have been devoted to the subject Despite the resurgence in interest it is not widely known that many results concerning finite fields have natural generalizations to abritrary algebraic extensions of finite fields The purpose of this book is to describe these generalizations After an introductory chapter surveying pertinent results about finite fields the book describes the lattice structure of fields between the finite field GF q and its algebraic closure Gamma q The authors introduce a notion due to Steinitz of an extended positive integer N which includes each ordinary positive integer n as a special case With the aid of these Steinitz numbers the algebraic extensions of GF q are represented by symbols of the form GF q N When N is an ordinary integer n this notation agrees with the usual notation GF q n for a dimension n extension of GF q The authors then show that many of the finite field results concerning GF q n are also true for GF q N One chapter is devoted to giving explicit algorithms for computing in several of the infinite fields GF q N using the notion of an explicit basis for GF q N over GF q Another chapter considers polynomials and polynomial like functions on GF q N and contains a description of several classes of permutation polynomials including the q polynomials and the Dickson polynomials Also included is a brief chapter describing two of many potential applications Aimed at the level of a beginning graduate student or advanced undergraduate this book could serve well as a supplementary text for a course in finite field theory   *Infinite Algebraic Extensions of Finite Fields* Joel V. Brawley,1989

Applications of Finite Fields Alfred J. Menezes,Ian F. Blake,XuHong Gao,Ronald C. Mullin,Scott A. Vanstone,Tomik Yaghoobian,2013-04-17 The theory of finite fields whose origins can be traced back to the works of Gauss and Galois has played a part in various branches in mathematics Inrecent years we have witnessed a resurgence of interest in finite fields and this is partly due to important applications in coding theory and cryptography The purpose of this book is to introduce the reader to some of these recent developments It should be of interest to a wide range of students researchers and practitioners in the disciplines of computer science engineering and mathematics We shall focus our attention on some specific recent developments in the theory and applications of finite fields While the topics selected are treated in some depth we have not attempted to be encyclopedic Among the topics studied are different methods of representing the elements of a finite field including normal bases and optimal normal bases algorithms for factoring polynomials over finite fields methods for constructing irreducible polynomials the discrete logarithm problem and its implications to cryptography the use of elliptic curves in constructing public key cryptosystems and the uses of algebraic geometry in constructing good error correcting codes To limit the size of the volume we have been forced to omit some important applications of finite fields

Some of these missing applications are briefly mentioned in the Appendix along with some key references   Finite Fields: Theory, Applications, and Algorithms Gary L. Mullen,Peter Jau-Shyong Shiue,1994 Because of their applications in so many diverse areas finite fields continue to play increasingly important roles in various branches of modern mathematics including number theory algebra and algebraic geometry as well as in computer science information theory statistics and engineering Computational and algorithmic aspects of finite field problems also continue to grow in importance This volume contains the refereed proceedings of a conference entitled Finite Fields Theory Applications and Algorithms held in August 1993 at the University of Nevada at Las Vegas Among the topics treated are theoretical aspects of finite fields coding theory cryptology combinatorial design theory and algorithms related to finite fields Also included is a list of open problems and conjectures This volume is an excellent reference for applied and research mathematicians as well as specialists and graduate students in information theory computer science and electrical engineering   Notices of the American Mathematical Society American Mathematical Society,1989   Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet,1991

Journal of Combinatorics, Information & System Sciences ,1992   **Congressus Numerantium** ,1970   Topics In Polynomials Of One And Several Variables And Their Applications: Volume Dedicated To The Memory Of P L Chebyshev (1821 - 1894) Themistocles M Rassias,A Yanushauskas,Hari M Srivastava,1993-04-08 This volume presents an account of some of the most important work that has been done on various research problems in the theory of polynomials of one and several variables and their applications It is dedicated to P L Chebyshev a leading Russian mathematician   **Report PM** ,1992   Hilbert's Tenth Problem: Relations with Arithmetic and Algebraic Geometry Jan Denef,2000 This book is the result of a meeting that took place at the University of Ghent Belgium on the relations between Hilbert s tenth problem arithmetic and algebraic geometry Included are written articles detailing the lectures that were given as well as contributed papers on current topics of interest The following areas are addressed an historical overview of Hilbert s tenth problem Hilbert s tenth problem for various rings and fields model theory and local global principles including relations between model theory and algebraic groups and analytic geometry conjectures in arithmetic geometry and the structure of diophantine sets for example with Mazur s conjecture Lang s conjecture and B cchi s problem and results on the complexity of diophantine geometry highlighting the relation to the theory of computation The volume allows the reader to learn and compare different approaches arithmetical geometrical topological model theoretical and computational to the general structural analysis of the set of solutions of polynomial equations It would make a nice contribution to graduate and advanced graduate courses on logic algebraic geometry and number theory   Martin Davis on Computability, Computational Logic, and Mathematical Foundations Eugenio G. Omodeo,Alberto Policriti,2017-01-27 This book presents a set of historical recollections on the work of Martin Davis and his role in advancing our understanding of the connections between logic computing and unsolvability The individual contributions touch on most of the core aspects of Davis work and set it in a contemporary context They

analyse discuss and develop many of the ideas and concepts that Davis put forward including such issues as contemporary satisfiability solvers essential unification quantum computing and generalisations of Hilbert s tenth problem The book starts out with a scientific autobiography by Davis and ends with his responses to comments included in the contributions In addition it includes two previously unpublished original historical papers in which Davis and Putnam investigate the decidable and the undecidable side of Logic as well as a full bibliography of Davis work As a whole this book shows how Davis scientific work lies at the intersection of computability theoretical computer science foundations of mathematics and philosophy and draws its unifying vision from his deep involvement in Logic   Subject Guide to Books in Print ,2001

   Algebraic Geometry Codes: Advanced Chapters Michael Tsfasman,Serge Vlăduț,Dmitry Nogin,2019-07-02 Algebraic Geometry Codes Advanced Chapters is devoted to the theory of algebraic geometry codes a subject related to local_libraryBook Catalogseveral domains of mathematics On one hand it involves such classical areas as algebraic geometry and number theory on the other it is connected to information transmission theory combinatorics finite geometries dense packings and so on The book gives a unique perspective on the subject Whereas most books on coding theory start with elementary concepts and then develop them in the framework of coding theory itself within this book systematically presents meaningful and important connections of coding theory with algebraic geometry and number theory Among many topics treated in the book the following should be mentioned curves with many points over finite fields class field theory asymptotic theory of global fields decoding sphere packing codes from multi dimensional varieties and applications of algebraic geometry codes The book is the natural continuation of Algebraic Geometric Codes Basic Notions by the same authors The concise exposition of the first volume is included as an appendix   **Proceedings on Infinite Dimensional Holomorphy** T.L. Hayden,T.J. Suffridge,2006-11-15   *Algebra i logika* Institut matematiki (Akademii︠a︡ nauk SSSR. Sibirskoe otdelenie),1990   Contents of Contemporary Mathematical Journals ,1974   **Forthcoming Books** Rose Arny,2001-08

   Guide to Reprints ,2007   **Algebras, Rings and Modules** Michiel Hazewinkel,Nadiya M. Gubareni,2016-04-05 The theory of algebras rings and modules is one of the fundamental domains of modern mathematics General algebra more specifically non commutative algebra is poised for major advances in the twenty first century together with and in interaction with combinatorics just as topology analysis and probability experienced in the twentieth centu

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