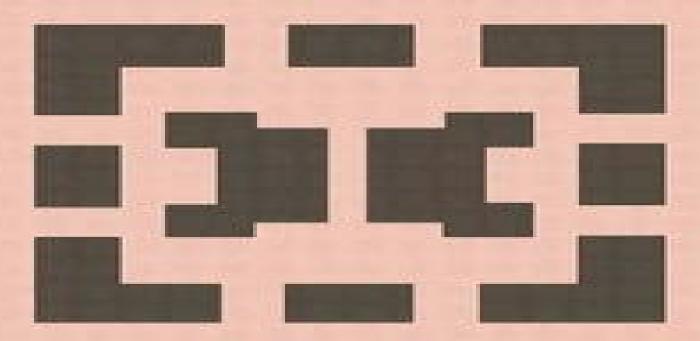# Igor E. Shparlinski

Finite Fields:
Theory and Computation

The Meeting Point of Number Theory,
Computer Science, Coding Theory and Cryptography

Finite Fields Theory And Computation Finite Fields Theory And Computation

Gary L. Mullen,Henning
Stichtenoth,Horacio Tapia-Recillas

Finite Fields Theory And Computation Finite Fields Theory And Computation:

   Finite Fields: Theory and Computation Igor Shparlinski,1999-05-31 This book is mainly devoted to some computational and algorithmic problems in finite fields such as for example polynomial factorization finding irreducible and primitive polynomials the distribution of these primitive polynomials and of primitive points on elliptic curves constructing bases of various types and new applications of finite fields to other areas of mathematics For completeness we in clude two special chapters on some recent advances and applications of the theory of congruences optimal coefficients congruential pseudo random number gener ators modular arithmetic etc and computational number theory primality testing factoring integers computation in algebraic number theory etc The problems considered here have many applications in Computer Science Cod ing Theory Cryptography Numerical Methods and so on There are a few books devoted to more general questions but the results contained in this book have not till now been collected under one cover In the present work the author has attempted to point out new links among different areas of the theory of finite fields It contains many very important results which previously could be found only in widely scattered and hardly available conference proceedings and journals In particular we extensively review results which originally appeared only in Russian and are not well known to mathematicians outside the former USSR   Finite Fields: Theory, Applications and Algorithms Ronald Cleveland Mullin,Gary L. Mullen,1999 The Ontario conference drew workers from theoretical applied and algorithm finite field theory to share their recent findings applying finite fields to such areas as number theory algebra and algebraic geometry The 21 topics include actions of linearized polynomials on the algebraic closure of a finite field kernels and defaults computing zeta functions over finite fields and the state complexity of some long codes No index Member prices are 39 for institutions and 29 for individuals Annotation copyrighted by Book News Inc Portland OR   **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   Finite Fields and their Applications James A. Davis,2020-10-26 The volume covers wide ranging topics from Theory structure of finite fields normal bases polynomials function fields APN functions Computation algorithms and complexity polynomial factorization decomposition and irreducibility testing sequences and functions Applications algebraic coding theory cryptography algebraic geometry over finite fields finite incidence geometry designs combinatorics quantum information science   **Finite Fields** Joachim von Zur Gathen,Igor E. Šparlinski,1997   **Finite Fields** Dirk Hachenberger,1997-01-31 A research reference and text examining the Normal Basis Theorem the classical result from field theory Hachenberger U of Augsburg Germany details a special class of normal bases whose existence has only been recently settled considering the main problems of characterization the enumeration and the explicit construction of complete free elements in arbitrary finite dimensional extensions over finite fields Although the universal property of a completely free element used to accelerate arithmetic computation in finite fields has not been ascertained this volume represents the search for such elements and leads to a deeper insight of the finite fields structure Annotation copyrighted by Book News Inc Portland OR   **Topics in Galois Fields** Dirk Hachenberger,Dieter Jungnickel,2020-09-29 This monograph provides a self contained presentation of the foundations of finite fields including a detailed treatment of their algebraic closures It also covers important advanced topics which are not yet found in textbooks the primitive normal basis theorem the existence of primitive elements in affine hyperplanes and the Niederreiter method for factoring polynomials over finite fields We give streamlined and or clearer proofs for many fundamental results and treat some classical material in an innovative manner In particular we emphasize the interplay between arithmetical and structural results and we introduce Berlekamp algebras in a novel way which provides a deeper understanding of Berlekamp s celebrated factorization algorithm The book provides a thorough grounding in finite field theory for graduate students and researchers in mathematics In view of its emphasis on applicable and computational aspects it is also useful for readers

working in information and communication engineering for instance in signal processing coding theory cryptography or computer science   **Finite Fields** ,1997   Computational and Algorithmic Problems in Finite Fields Igor E. Shparlinski,1992 This volume presents an exhaustive treatment of computation and algorithms for finite fields   Algorithms and Theory of Computation Handbook Mikhail J. Atallah,1998-11-23 Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip vision and image processing data compression and cryptography The book also presents some advanced topics in combinatorial optimization and parallel distributed computing applications areas where algorithms and data structuring techniques are of special importance graph drawing robot algorithms VLSI layout vision and image processing algorithms scheduling electronic cash data compression dynamic graph algorithms on line algorithms multidimensional data structures cryptography advanced topics in combinatorial optimization and parallel distributed computing   **Finite Fields with Applications to Coding Theory, Cryptography and Related Areas** Gary L. Mullen,Henning Stichtenoth,Horacio Tapia-Recillas,2012-12-06 The Sixth International Conference on Finite Fields and Applications Fq6 held in the city of Oaxaca Mexico from May 21 25 2001 continued a series of biennial international conferences on finite fields This volume documents the steadily increasing interest in this topic Finite fields are an important tool in discrete mathematics and its applications cover algebraic geometry coding theory cryptology design theory finite geometries and scientific computation among others An important feature is the interplay between theory and applications which has led to many new perspectives in research on finite fields and other areas This interplay has been emphasized in this series of conferences and certainly was reflected in Fq6 This volume offers up to date original research papers by leading experts in the area   **Combinatorics, Graph Theory and Computing** Sarah Heuss,Richard Low,John C. Wierman,2024-11-26 This proceedings volume compiles selected revised papers presented at the 53rd SouthEastern International Conference on Combinatorics Graph Theory and Computing SEICCGTC 2022 which took place at Florida Atlantic University in Boca Raton USA from March 7th to 11th 2022 The SEICCGTC is widely regarded as a trendsetter for other conferences worldwide Many ideas and themes initially discussed here have subsequently been explored in other conferences and symposia Since 1970 the conference has been held annually in Baton Rouge Louisiana and Boca Raton Florida Over the years it has grown to become the primary annual conference in its fields playing a crucial role in disseminating results and fostering collaborative work This volume is tailored for the community of pure and applied mathematicians in academia industry and government who work in combinatorics and graph theory as well as related areas of computer science and the intersections among these fields   **Finite Fields** Rudolf Lidl,Harald Niederreiter,1997 This

book is devoted entirely to the theory of finite fields   **Cryptography and Computational Number Theory** Kwok Y. Lam,Igor Shparlinski,Huaxiong Wang,Chaoping Xing,2013-03-07 This volume contains the refereed proceedings of the Workshop on Cryptography and Computational Number Theory CCNT 99 which has been held in Singapore during the week of November 22 26 1999 The workshop was organized by the Centre for Systems Security of the Na tional University of Singapore We gratefully acknowledge the financial support from the Singapore National Science and Technology Board under the grant num ber RP960668 M The idea for this workshop grew out of the recognition of the recent rapid development in various areas of cryptography and computational number the ory The event followed the concept of the research programs at such well known research institutions as the Newton Institute UK Oberwolfach and Dagstuhl Germany and Luminy France Accordingly there were only invited lectures at the workshop with plenty of time for informal discussions It was hoped and successfully achieved that the meeting would encourage and stimulate further research in information and computer security as well as in the design and implementation of number theoretic cryptosystems and other related areas Another goal of the meeting was to stimulate collaboration and more active interaction between mathematicians computer scientists practical cryptographers and engineers in academia industry and government   Computational Invariant Theory Harm Derksen,Gregor Kemper,2015-12-23 This book is about the computational aspects of invariant theory Of central interest is the question how the invariant ring of a given group action can be calculated Algorithms for this purpose form the main pillars around which the book is built There are two introductory chapters one on Gr bner basis methods and one on the basic concepts of invariant theory which prepare the ground for the algorithms Then algorithms for computing invariants of finite and reductive groups are discussed Particular emphasis lies on interrelations between structural properties of invariant rings and computational methods Finally the book contains a chapter on applications of invariant theory covering fields as disparate as graph theory coding theory dynamical systems and computer vision The book is intended for postgraduate students as well as researchers in geometry computer algebra and of course invariant theory The text is enriched with numerous explicit examples which illustrate the theory and should be of more than passing interest More than ten years after the first publication of the book the second edition now provides a major update and covers many recent developments in the field Among the roughly 100 added pages there are two appendices authored by Vladimi r Popov and an addendum by Norbert A Campo and Vladimir Popov   **Public-Key Cryptography and Computational Number Theory** Kazimierz Alster,Jerzy Urbanowicz,Hugh C. Williams,2011-06-24 The Proceedings contain twenty selected refereed contributions arising from the International Conference on Public Key Cryptography and Computational Number Theory held in Warsaw Poland on September 11 15 2000 The conference attended by eightyfive mathematicians from eleven countries was organized by the Stefan Banach International Mathematical Center This volume contains articles from leading experts in the world on cryptography and computational number theory providing an account of the state of research in a wide variety of

topics related to the conference theme It is dedicated to the memory of the Polish mathematicians Marian Rejewski 1905 1980 Jerzy R ycki 1909 1942 and Henryk Zygalski 1907 1978 who deciphered the military version of the famous Enigma in December 1932 January 1933 A noteworthy feature of the volume is a foreword written by Andrew Odlyzko on the progress in cryptography from Enigma time until now **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 **Finite Fields, with Applications to Combinatorics** Kannan Soundararajan,2022-11-09 This book uses finite field theory as a hook to introduce the reader to a range of ideas from algebra and number theory It constructs all finite fields from scratch and shows that they are unique up to isomorphism As a payoff several combinatorial applications of finite fields are given Sidon sets and perfect difference sets de Bruijn sequences and a magic trick of Persi Diaconis and the polynomial time algorithm for primality testing due to Agrawal Kayal and Saxena The book forms the basis for a one term intensive course with students meeting weekly for multiple lectures and a discussion session Readers can expect to develop familiarity with ideas in algebra groups rings and fields and elementary number theory which would help with later classes where these are developed in greater detail And they will enjoy seeing the AKS primality test application tying together the many disparate topics from the book The pre requisites for reading this book are minimal familiarity with proof writing some linear algebra and one variable calculus is assumed This book is aimed at incoming undergraduate students with a strong interest in mathematics or computer science

<u>Lectures on Finite Fields</u> Xiang-dong Hou,2018 The theory of finite fields encompasses algebra combinatorics and number theory and has furnished widespread applications in other areas of mathematics and computer science This book is a collection of selected topics in the theory of finite fields and related areas The topics include basic facts about finite fields polynomials over finite fields Gauss sums algebraic number theory and cyclotomic fields zeros of polynomials over finite fields and classical groups over finite fields The book is mostly self contained and the material covered is accessible to readers with the knowledge

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