ELLIPTIC CURVES

NUMBER THEORY AND CRYPTOGRAPHY

SECOND EDITION

LAWRENCE C. WASHINGTON

Elliptic Curves Number Theory And Cryptography Discrete Mathematics And Its Applications

Julia Schneider

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   Elliptic Curves Lawrence C. Washington,2008-04-03 Like its bestselling predecessor Elliptic Curves Number Theory and Cryptography Second Edition develops the theory of elliptic curves to provide a basis for both number theoretic and cryptographic applications With additional exercises this edition offers more comprehensive coverage of the fundamental theory techniques and application   Elliptic Curves Lawrence C. Washington,2003-05-28 Elliptic curves have played an increasingly important role in number theory and related fields over the last several decades most notably in areas such as cryptography factorization and the proof of Fermat s Last Theorem However most books on the subject assume a rather high level of mathematical sophistication and few are truly accessible to   **Elliptic Curves** ,2008 Like its bestselling predecessor Elliptic Curves Number Theory and Cryptography Second Edition develops the theory of elliptic curves to provide a basis for both number theoretic and cryptographic applications With additional exercises this edition offers more comprehensive coverage of the fundamental theory techniques and applications of elliptic curves New to the Second Edition Chapters on isogenies and hyperelliptic curves A discussion of alternative coordinate systems such as projective Jacobian and Edwards coordinates along with related computational issues A more complete treatment of the Weil and Tate Lichtenbaum pairings Doud s analytic method for computing torsion on elliptic curves over Q An explanation of how to perform calculations with elliptic curves in several popular computer algebra systems Taking a basic approach to elliptic curves this accessible book prepares readers to tackle more advanced problems in the field It introduces elliptic curves over finite fields early in the text before moving on to interesting applications such as cryptography factoring and primality testing The book also discusses the use of elliptic curves in Fermat s Last Theorem Relevant abstract algebra material on group theory and fields can be found in the appendices   **Guide to Pairing-Based Cryptography** Nadia El Mrabet,Marc Joye,2017-01-06 This book is devoted to efficient pairing computations and implementations useful tools for cryptographers working on topics like identity based cryptography and the simplification of existing protocols like signature schemes As well as exploring the basic mathematical background of finite fields and elliptic curves Guide to Pairing Based Cryptography offers an overview of the most recent developments in optimizations for pairing implementation Each chapter includes a presentation of the problem it discusses the mathematical formulation a discussion of implementation issues solutions accompanied by code or pseudocode several numerical results and references to further reading and notes Intended as a self contained handbook this book is an invaluable resource for computer scientists applied mathematicians and security professionals interested in cryptography   **Analytic Methods in Arithmetic Geometry** Alina Bucur,David Zureick-Brown,2019-11-22 In the last decade or so analytic methods have had great success in answering questions in arithmetic geometry and number theory The School provided a unique opportunity to introduce graduate students to analytic methods in arithmetic geometry The book contains four articles Alina C Cojocaru s article introduces sieving techniques to study the group structure of points of the

reduction of an elliptic curve modulo a rational prime via its division fields Harald A Helfgott s article provides an introduction to the study of growth in groups of Lie type with SL2 Fq and some of its subgroups as the key examples The article by tienne Fouvry Emmanuel Kowalski Philippe Michel and Will Sawin describes how a systematic use of the deep methods from adic cohomology pioneered by Grothendieck and Deligne and further developed by Katz and Laumon help make progress on various classical questions from analytic number theory The last article by Andrew V Sutherland introduces Sato Tate groups and explores their relationship with Galois representations motivic L functions and Mumford Tate groups   **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   *Applied Algebra, Algebraic Algorithms and Error-Correcting Codes* Marc Fossorier,Tom Hoeholdt,Alain Poli,2003-08-03 This book constitutes the refereed proceedings of the 15th International Symposium on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAECC 15 held in Toulouse France in May 2003 The 25 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 40 submissions Among the subjects addressed are block codes algebra and codes rings fields and AG codes cryptography sequences decoding algorithms and algebra constructions in algebra Galois groups differential algebra and polynomials   **Algebraic Curves in Cryptography** San Ling,Huaxiong Wang,Chaoping Xing,2013-06-13 The reach of algebraic curves in cryptography goes far beyond elliptic curve or public key cryptography yet these other application areas have not been systematically covered in the literature Addressing this gap Algebraic Curves in Cryptography explores the rich uses of algebraic curves in a range of cryptographic applications such as secret sh   **Computational Number Theory** Abhijit Das,2016-04-19 Developed from the author s popular graduate level course Computational Number Theory presents a complete treatment of number theoretic algorithms Avoiding advanced algebra this self contained text is designed for

advanced undergraduate and beginning graduate students in engineering It is also suitable for researchers new to the field and pract   Mathematical Reviews ,2008   **Introduction to Security Reduction** Fuchun Guo,Willy Susilo,Yi Mu,2018-06-26 This monograph illustrates important notions in security reductions and essential techniques in security reductions for group based cryptosystems Using digital signatures and encryption as examples the authors explain how to program correct security reductions for those cryptographic primitives Various schemes are selected and re proven in this book to demonstrate and exemplify correct security reductions This book is suitable for researchers and graduate students engaged with public key cryptography   *Introduction to Number Theory* Anthony Vazzana,Martin Erickson,David Garth,2007-10-30 One of the oldest branches of mathematics number theory is a vast field devoted to studying the properties of whole numbers Offering a flexible format for a one or two semester course Introduction to Number Theory uses worked examples numerous exercises and two popular software packages to describe a diverse array of number theory topi

   Algebraic Geometric Codes: Basic Notions Michael Tsfasman,Serge Vlăduţ,Dmitry Nogin,2022-04-15 The book is devoted to the theory of algebraic geometric codes a subject formed on the border of several domains of mathematics On one side there are such classical areas as algebraic geometry and number theory on the other information transmission theory combinatorics finite geometries dense packings etc The authors give a unique perspective on the subject Whereas most books on coding theory build up coding theory from within starting from elementary concepts and almost always finishing without reaching a certain depth this book constantly looks for interpretations that connect coding theory to algebraic geometry and number theory There are no prerequisites other than a standard algebra graduate course The first two chapters of the book can serve as an introduction to coding theory and algebraic geometry respectively Special attention is given to the geometry of curves over finite fields in the third chapter Finally in the last chapter the authors explain relations between all of these the theory of algebraic geometric codes   *Israel Journal of Mathematics* Moʻatsah ha-leʼumit le-meḥḳar ule-fituaḥ (Israel),2008   Handbook of Elliptic and Hyperelliptic Curve Cryptography Henri Cohen,Gerhard Frey,Roberto Avanzi,Christophe Doche,Tanja Lange,Kim Nguyen,Frederik Vercauteren,2005-07-19 The discrete logarithm problem based on elliptic and hyperelliptic curves has gained a lot of popularity as a cryptographic primitive The main reason is that no subexponential algorithm for computing discrete logarithms on small genus curves is currently available except in very special cases Therefore curve based cryptosystems require much smaller key sizes than RSA to attain the same security level This makes them particularly attractive for implementations on memory restricted devices like smart cards and in high security applications The Handbook of Elliptic and Hyperelliptic Curve Cryptography introduces the theory and algorithms involved in curve based cryptography After a very detailed exposition of the mathematical background it provides ready to implement algorithms for the group operations and computation of pairings It explores methods for point counting and constructing curves with the complex multiplication method and provides the algorithms in an explicit manner It also surveys

generic methods to compute discrete logarithms and details index calculus methods for hyperelliptic curves For some special curves the discrete logarithm problem can be transferred to an easier one the consequences are explained and suggestions for good choices are given The authors present applications to protocols for discrete logarithm based systems including bilinear structures and explain the use of elliptic and hyperelliptic curves in factorization and primality proving Two chapters explore their design and efficient implementations in smart cards Practical and theoretical aspects of side channel attacks and countermeasures and a chapter devoted to pseudo random number generation round off the exposition The broad coverage of all important areas makes this book a complete handbook of elliptic and hyperelliptic curve cryptography and an invaluable reference to anyone interested in this exciting field   **Information Security and Cryptology** ,2004

Algorithmic Number Theory ,2004   **Fundamental Number Theory with Applications** Richard A. Mollin,1997-09-10 Beginning with the arithmetic of the rational integers and proceeding to an introduction of algebraic number theory via quadratic orders Fundamental Number Theory with Applications reveals intriguing new applications of number theory This text details aspects of computer science related to cryptography factoring primality testing complexity analysis computer arithmetic computational number theory Fundamental Number Theory with Applications also covers Carmichael numbers Dirichlet products Jacobsthal sums Mersenne primes perfect numbers powerful numbers self contained numbers Numerous exercises are included testing the reader s knowledge of the concepts covered introducing new and interesting topics and providing a venue to learn background material Written by a professor and author who is an accomplished scholar in this field this book provides the material essential for an introduction to the fundamentals of number theory   **Acta Arithmetica** ,2019   Subject Guide to Books in Print ,1991

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