DISCRETE MATHEMATICS AND ITS APPLICATIONS
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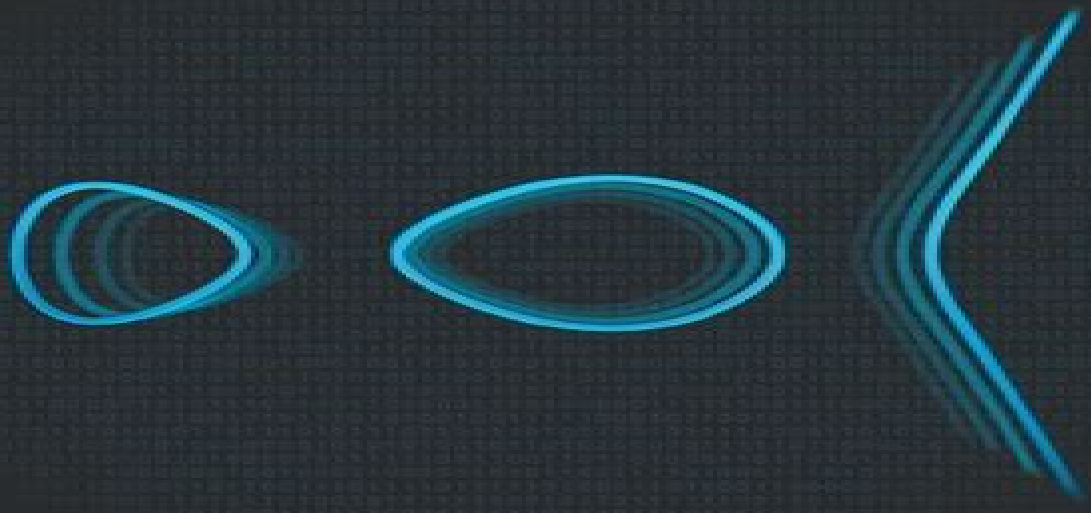
HANDBOOK OF ELLIPTIC AND HYPERELLIPTIC CURVE CRYPTOGRAPHY



HENRI COHEN AND GERHARD FREY

ROBERTO AVANZI, CHRISTOPHE DOCHE, TANJA LANGE,
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Handbook Of Elliptic And Hyperelliptic Curve Cryptography Discrete Mathematics And Its Applications

Johannes Blömer,Ilias S. Kotsireas,Temur Kutsia,Dimitris E. Simos

Handbook Of Elliptic And Hyperelliptic Curve Cryptography Discrete Mathematics And Its Applications:

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 **Handbook of Elliptic and Hyperelliptic Curve Cryptography** ,2006 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

Handbook of Elliptic and Hyperelliptic Curve Cryptography, Second Edition Henri Cohen,Gerhard Frey,Roberto Avanzi,Christophe Doche,Tanja Lange,Kim Nguyen,Frederik Vercauteren,2016-03-26 This handbook provides a complete reference on elliptic and hyperelliptic curve cryptography Addressing every aspect of the field the book contains all of the background necessary to understand the theory and security of cryptosystems as well as the algorithms that can be used to implement them This second edition features the latest developments on pairing based cryptography new ideas on index calculus attacks improved algorithms for genus 2 arithmetic and a number of other new additions It also includes many new applications and provides better explanations on some of the more mathematical presentations **The Arithmetic of Elliptic Curves** Joseph H. Silverman,2009-04-20 The theory of elliptic curves is distinguished by its long history and by the diversity of the methods that have been used in its study This book treats the arithmetic approach in its modern formulation through the use of basic algebraic number theory and algebraic geometry Following a brief discussion of the necessary algebro geometric results the book proceeds with an exposition of the geometry and the formal group of elliptic curves elliptic curves over finite fields the complex numbers local fields and global fields Final chapters deal with integral and rational points including Siegels theorem and explicit computations for the curve Y X DX while three appendices conclude the whole Elliptic Curves in Characteristics 2 and 3 Group Cohomology and an overview of more advanced topics *Algorithmic Number Theory* Guillaume Hanrot,Francois Morain,Emmanuel Thomé,2010-07-07 This book constitutes the refereed proceedings of the 9th International Algorithmic Number Theory Symposium ANTS 2010 held in Nancy France in July 2010 The 25 revised full papers presented together with 5 invited papers were carefully reviewed and selected for inclusion in the book The papers are devoted to algorithmic aspects of number theory including elementary number theory algebraic number theory analytic number theory geometry of numbers algebraic geometry finite fields and cryptography **Algebraic Aspects of Digital Communications** Tanush Shaska,Engjell Hasimaj,2009 Proceedings of the NATO Advanced Study Institute on New Challenges in Digital Communications Vlora Albania 27 April 9 May 2008 T p verso Handbook of Information and Communication Security Peter Stavroulakis,Mark Stamp,2010-02-23 At its core information security deals with the secure and accurate transfer of information While information security has long been important it was perhaps brought more clearly into mainstream focus with the so called Y2K issue Te Y2K scare was the fear that c puter networks and the systems that are controlled or operated by sofware would fail with the turn of the millennium since their clocks could lose

synchronization by not recognizing a number instruction with three zeros A positive outcome of this scare was the creation of several Computer Emergency Response Teams CERTs around the world that now work operatively to exchange expertise and information and to coordinate in case major problems should arise in the modern IT environment Te terrorist attacks of 11 September 2001 raised security concerns to a new level Te ternational community responded on at least two fronts one front being the transfer of reliable information via secure networks and the other being the collection of information about tential terrorists As a sign of this new emphasis on security since 2001 all major academic publishers have started technical journals focused on security and every major communi tions conference for example Globecom and ICC has organized workshops and sessions on security issues In addition the IEEE has created a technical committee on Communication and Information Security Te rst editor was intimately involved with security for the Athens Olympic Games of 2004 **Handbook of Graph Drawing and Visualization** Roberto Tamassia,2013-08-19 Get an In Depth Understanding of Graph Drawing Techniques Algorithms Software and Applications The Handbook of Graph Drawing and Visualization provides a broad up to date survey of the field of graph drawing It covers topological and geometric foundations algorithms software systems and visualization applications in business education science and engineering Each chapter is self contained and includes extensive references The first several chapters of the book deal with fundamental topological and geometric concepts and techniques used in graph drawing such as planarity testing and embedding crossings and planarization symmetric drawings and proximity drawings The following chapters present a large collection of algorithms for constructing drawings of graphs including tree planar straight line planar orthogonal and polyline spine and radial circular rectangular hierarchical and three dimensional drawings as well as labeling algorithms simultaneous embeddings and force directed methods The book then introduces the GraphML language for representing graphs and their drawings and describes three software systems for constructing drawings of graphs OGDF GDToolkit and PIGALE The final chapters illustrate the use of graph drawing methods in visualization applications for biological networks computer security data analytics education computer networks and social networks Edited by a pioneer in graph drawing and with contributions from leaders in the graph drawing research community this handbook shows how graph drawing and visualization can be applied in the physical life and social sciences Whether you are a mathematics researcher IT practitioner or software developer the book will help you understand graph drawing methods and graph visualization systems use graph drawing techniques in your research and incorporate graph drawing solutions in your products Architecture of Computing Systems - ARCS 2008 Theo Ungerer,Christian Hochberger,Rainer G. Spallek,2008-02-12 This book constitutes the refereed proceedings of the 21st International Conference on Architecture of Computing Systems ARCS 2008 held in Dresden Germany in February 2008 The 19 revised full papers presented together with 2 keynote papers were carefully reviewed and selected from 47 submissions The papers cover a wide spectrum reaching from pre fabrication adaptation of architectural templates to dynamic run time adaptation of

deployed systems with special focus on adaptivity and adaptive system architectures The papers are organized in topical sections on hardware design pervasive computing network processors and memory management reconfigurable hardware real time architectures organic computing and computer architecture **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 *A Java Library of Graph Algorithms and Optimization* Hang T. Lau,2006-10-20 Because of its portability and platform independence Java is the ideal computer programming language to use when working on graph algorithms and other mathematical programming problems Collecting some of the most popular graph algorithms and optimization procedures A Java Library of Graph Algorithms and Optimization provides the source code for *Cryptographic Hardware and Embedded Systems -- CHES 2011* Bart Preneel,Tsuyoshi Takagi,2011-09-28 This book constitutes the proceedings of the 13th International Workshop on Cryptographic Hardware and Embedded Systems CHES 2011 held in Nara Japan from September 28 until October 1 2011 The 32 papers presented together with 1 invited talk were carefully reviewed and selected from 119 submissions The papers are organized in topical sections named FPGA implementation AES elliptic curve cryptosystems lattices side channel attacks fault attacks lightweight symmetric algorithms PUFs public key cryptosystems and hash functions *Mathematical Aspects of Computer and Information Sciences* Johannes Blömer,Ilias S. Kotsireas,Temur Kutsia,Dimitris E. Simos,2017-12-20 This book constitutes the refereed proceedings of the 7th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2017 held in Vienna Austria in November 2017 The 28 revised papers and 8 short papers presented were carefully reviewed and selected from 67 submissions The papers are organized in the following topical sections foundation of algorithms in mathematics engineering and scientific computation combinatorics and codes in computer science data modeling and analysis and mathematical aspects of information security and cryptography **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 Finite-Dimensional Linear Algebra Mark S. Gockenbach,2011-06-15 Linear

algebra forms the basis for much of modern mathematics theoretical applied and computational Finite Dimensional Linear Algebra provides a solid foundation for the study of advanced mathematics and discusses applications of linear algebra to such diverse areas as combinatorics differential equations optimization and approximation The author begins with an overview of the essential themes of the book linear equations best approximation and diagonalization He then takes students through an axiomatic development of vector spaces linear operators eigenvalues norms and inner products In addition to discussing the special properties of symmetric matrices he covers the Jordan canonical form an important theoretical tool and the singular value decomposition a powerful tool for computation The final chapters present introductions to numerical linear algebra and analysis in vector spaces including a brief introduction to functional analysis infinite dimensional linear algebra Drawing on material from the author s own course this textbook gives students a strong theoretical understanding of linear algebra It offers many illustrations of how linear algebra is used throughout mathematics *Progress in Cryptology – AFRICACRYPT 2014* David Pointcheval,Damien Vergnaud,2014-05-21 This book constitutes the refereed proceedings of the 7th International Conference on the Theory and Application of Cryptographic Techniques in Africa AFRICA CRYPT 2014 held in Marrakesh Morocco in May 2014 The 26 papers presented together with 1 invited talk were carefully reviewed and selected from 83 submissions The aim of Africa crypt 2014 is to provide an international forum for practitioners and researchers from industry academia and government from all over the world for a wide ranging discussion of all forms of cryptography and its applications as follows Public Key Cryptography Hash Functions Secret Key Cryptanalysis Number Theory Hardware Implementation Protocols and Lattice based Cryptography **Mathematics in Cyber Research** Paul L. Goethals,Natalie M. Scala,Daniel T. Bennett,2022-02-06 In the last decade both scholars and practitioners have sought novel ways to address the problem of cybersecurity Innovative outcomes have included applications such as blockchain as well as creative methods for cyber forensics software development and intrusion prevention Accompanying these technological advancements discussion on cyber matters at national and international levels has focused primarily on the topics of law policy and strategy The objective of these efforts is typically to promote security by establishing agreements among stakeholders on regulatory activities Varying levels of investment in cyberspace however comes with varying levels of risk in some ways this can translate directly to the degree of emphasis for pushing substantial change At the very foundation or root of cyberspace systems and processes are tenets and rules governed by principles in mathematics Topics such as encrypting or decrypting file transmissions modeling networks performing data analysis quantifying uncertainty measuring risk and weighing decisions or adversarial courses of action represent a very small subset of activities highlighted by mathematics To facilitate education and a greater awareness of the role of mathematics in cyber systems and processes a description of research in this area is needed Mathematics in Cyber Research aims to familiarize educators and young researchers with the breadth of mathematics in cyber related research Each chapter introduces a mathematical sub field describes relevant work

in this field associated with the cyber domain provides methods and tools as well as details cyber research examples or case studies Features One of the only books to bring together such a diverse and comprehensive range of topics within mathematics and apply them to cyber research Suitable for college undergraduate students or educators that are either interested in learning about cyber related mathematics or intend to perform research within the cyber domain The book may also appeal to practitioners within the commercial or government industry sectors Most national and international venues for collaboration and discussion on cyber matters have focused primarily on the topics of law policy strategy and technology This book is among the first to address the underpinning mathematics **Selected Areas in Cryptography -- SAC 2014** Antoine Joux,Amr Youssef,2014-12-04 This book constitutes the proceedings of the 21st International Conference on Selected Areas in Cryptography SAC 2014 held in Montreal QC Canada in August 2014 The 22 papers presented in this volume were carefully reviewed and selected from 103 submissions There are four areas covered at each SAC conference The three permanent areas are design and analysis of symmetric key primitives and cryptosystems including block and stream ciphers hash function MAC algorithms cryptographic permutations and authenticated encryption schemes efficient implementations of symmetric and public key algorithms mathematical and algorithmic aspects of applied cryptology This year the fourth area for SAC 2014 is algorithms for cryptography cryptanalysis and their complexity analysis **Information Security and Cryptology - ICISC 2014** Jooyoung Lee,Jongsung Kim,2015-03-16 This book constitutes the thoroughly refereed post conference proceedings of the 17th International Conference on Information Security and Cryptology ICISC 2014 held in Seoul South Korea in December 2014 The 27 revised full papers presented were carefully selected from 91 submissions during two rounds of reviewing The papers provide the latest results in research development and applications in the field of information security and cryptology They are organized in topical sections on RSA security digital signature public key cryptography block ciphers network security mobile security hash functions information hiding and efficiency cryptographic protocol and side channel attacks **An Introduction to Mathematical Cryptography** Jeffrey Hoffstein,Jill Pipher,Joseph H. Silverman,2014-09-11 This self contained introduction to modern cryptography emphasizes the mathematics behind the theory of public key cryptosystems and digital signature schemes The book focuses on these key topics while developing the mathematical tools needed for the construction and security analysis of diverse cryptosystems Only basic linear algebra is required of the reader techniques from algebra number theory and probability are introduced and developed as required This text provides an ideal introduction for mathematics and computer science students to the mathematical foundations of modern cryptography The book includes an extensive bibliography and index supplementary materials are available online The book covers a variety of topics that are considered central to mathematical cryptography Key topics include classical cryptographic constructions such as Diffie Hellmann key exchange discrete logarithm based cryptosystems the RSA cryptosystem and digital signatures fundamental mathematical tools for cryptography including primality testing

factorization algorithms probability theory information theory and collision algorithms an in depth treatment of important cryptographic innovations such as elliptic curves elliptic curve and pairing based cryptography lattices lattice based cryptography and the NTRU cryptosystem The second edition of An Introduction to Mathematical Cryptography includes a significant revision of the material on digital signatures including an earlier introduction to RSA Elgamal and DSA signatures and new material on lattice based signatures and rejection sampling Many sections have been rewritten or expanded for clarity especially in the chapters on information theory elliptic curves and lattices and the chapter of additional topics has been expanded to include sections on digital cash and homomorphic encryption Numerous new exercises have been included

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