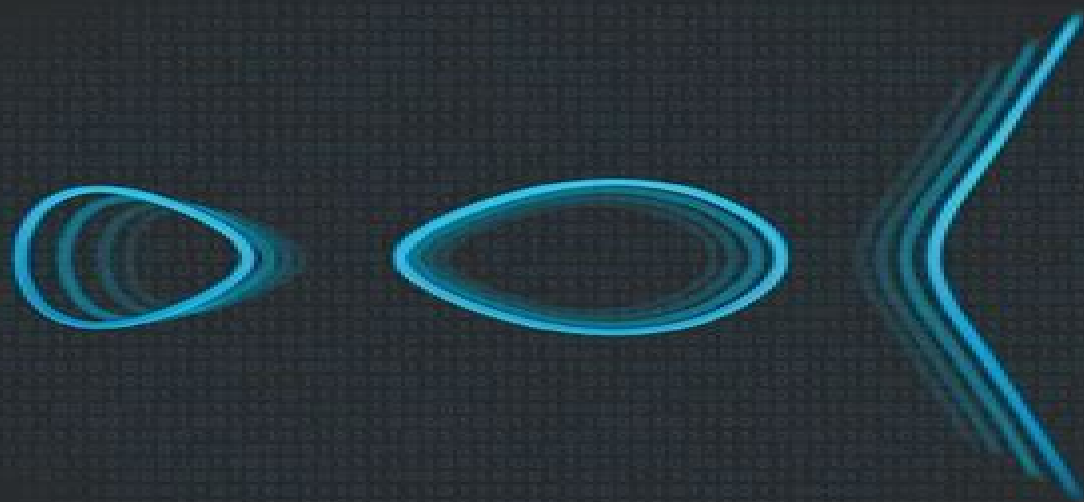


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HANDBOOK OF ELLIPTIC AND HYPERELLIPTIC CURVE CRYPTOGRAPHY



HENRI COHEN AND GERHARD FREY

ROBERTO AVANZI, CHRISTOPHE DOCHE, TANJA LANGE,
KIM NGUYEN, AND FREDERIK VERCAUTEREN

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

Nadia El Mrabet, Marc Joye



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

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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

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

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

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

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

Authentication Codes and Combinatorial Designs Dingyi Pei, 2006-01-13 Researchers and practitioners of cryptography and information security are constantly challenged to respond to new attacks and threats to information systems Authentication Codes and Combinatorial Designs presents new findings and original work on perfect authentication codes characterized in terms of combinatorial designs namely strong partially

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

Introduction to Combinatorics Walter D. Wallis, John C. George, 2016-12-12 What Is Combinatorics Anyway Broadly speaking combinatorics is the branch of mathematics dealing with different ways of selecting objects from a set or arranging objects It tries to answer two major kinds of questions namely counting questions how many ways can a selection or arrangement be chosen with a particular set of properties and structural questions does there exist a selection or arrangement of objects with a particular set of properties The authors have presented a text for students at all levels of preparation For some this will be the first course where the students see several real proofs Others will have a good background in linear algebra will have completed the calculus stream and will have started abstract algebra The text starts by briefly discussing several examples of typical combinatorial problems to give the reader a better idea of what the subject covers The next chapters explore enumerative ideas and also probability It then moves on to enumerative functions and the relations between them and generating functions and recurrences Important families of functions or numbers and then theorems are presented Brief introductions to

computer algebra and group theory come next Structures of particular interest in combinatorics posets graphs codes Latin squares and experimental designs follow The authors conclude with further discussion of the interaction between linear algebra and combinatorics Features Two new chapters on probability and posets Numerous new illustrations exercises and problems More examples on current technology use A thorough focus on accuracy Three appendices sets induction and proof techniques vectors and matrices and biographies with historical notes Flexible use of Maple™ and Mathematica™

Algebraic Number Theory Richard A. Mollin, 2011-01-05 Bringing the material up to date to reflect modern applications this second edition has been completely rewritten and reorganized to incorporate a new style methodology and presentation It offers a more complete and involved treatment of Galois theory a more comprehensive section on Pollard's cubic factoring algorithm and more detailed explanations of proofs to provide a sound understanding of challenging material This edition also studies binary quadratic forms and compares the ideal and form class groups The text includes convenient cross referencing a comprehensive index and numerous exercises and applications Jahresbericht der Deutschen Mathematiker-Vereinigung Deutsche Mathematiker-Vereinigung, 2012

Graph Polynomials Yongtang Shi, Matthias Dehmer, Xueliang Li, Ivan Gutman, 2016-11-25 This book covers both theoretical and practical results for graph polynomials Graph polynomials have been developed for measuring combinatorial graph invariants and for characterizing graphs Various problems in pure and applied graph theory or discrete mathematics can be treated and solved efficiently by using graph polynomials Graph polynomials have been proven useful areas such as discrete mathematics engineering information sciences mathematical chemistry and related disciplines Mathematical Reviews, 2007

Quantum Communication, Measurement and Computing (QCMC) Alexander Lvovsky, 2009-05-13 The volume contains the proceedings of the 2008 International Conference on Quantum Communication Measurement and Computing This meeting has been the leading conference in the field for more than two decades The articles cover quantum information theory quantum optics quantum cryptography experimental tools for quantum information science and related subjects *A Java Library of Graph Algorithms and Optimization* Hang T. Lau, 2007 Collecting some of the most popular graph algorithms and optimization procedures A Java Library of Graph Algorithms and Optimization provides the source code for a library of Java programs that can be used to solve problems in graph theory and combinatorial optimization Self contained and largely independent each topic starts with a problem description and an outline of the solution procedure followed by its parameter list specification source code and a test example that illustrates the usage of the code An accompanying CD ROM contains all of the Java code included in the book Annales de l'Institut Fourier, 2006

Introduction to Combinatorial Designs, Second Edition W.D. Wallis, 2007-05-17 This new edition presents a comprehensive look at combinatorial designs It covers classical designs such as Latin squares balanced incomplete block designs and finite projective and affine planes as well as more contemporary designs that include one factorizations Room squares tournament designs and nested designs The book

features applications in cryptography computer science experimental design communications theory and more With every topic it includes instructive examples and theorems The text also provides exercises in each section select answers in the back of the book and more complete solutions on the author's website

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 $\mathbb{Q}$ 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

Wartacrypt '04 Jerzy Jaworski, Mieczysław Kula, Karol Nemoga, 2006

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