

Number Field Sieve

An extremely fast factorization method developed by Pollard which was used to factor the [RSA-130 number](#). This method is the most powerful known for factoring general numbers, and has complexity

$$O\left\{\exp\left[c(\log n)^{1/3}(\log \log n)^{2/3}\right]\right\}, \quad (1)$$

reducing the exponent over the [continued fraction factorization algorithm](#) and [quadratic sieve](#). There are three values of c relevant to different flavors of the method (Pomerance 1996). For the "special" case of the algorithm applied to numbers near a large [power](#),

$$c = \left(\frac{32}{9}\right)^{1/3} = 1.526285 \dots, \quad (2)$$

for the "general" case applicable to any [odd positive](#) number which is not a [power](#),

$$c = \left(\frac{64}{9}\right)^{1/3} = 1.922999 \dots, \quad (3)$$

and for a version using many [polynomials](#) (Coppersmith 1993),

Number Field Sieve

**Alfred J. Menezes, Paul C. van
Oorschot, Scott A. Vanstone**



Number Field Sieve:

Pollard's Number Field Sieve Alexander Shaumyan, 1998 The Number Field Sieve has revolutionized the field of computational number theory and enabled researchers to factor very large integers a task which seemed insurmountable with the best computers and the best factorization techniques that were available a few years earlier We ll illustrate how the Number Field Sieve works using various examples of factorizations in different number fields We ll also see how the method can be extended to factor any integer m not just a special m which can be written in the form $m = r^2 S$ for which the original algorithm was developed We ll look at the modified version of the Number Field Sieve known as the General Number Field Sieve GNFS and look at an example of a number factored with GNFS But in order to understand the process we need to introduce the concepts of algebraic number fields and algebraic numbers

The Development of the Number Field Sieve Arjen K. Lenstra, H. W. Lenstra, 1993-08-30 The number field sieve is an algorithm for finding the prime factors of large integers It depends on algebraic number theory Proposed by John Pollard in 1988 the method was used in 1990 to factor the ninth Fermat number a 155 digit integer The algorithm is most suited to numbers of a special form but there is a promising variant that applies in general This volume contains six research papers that describe the operation of the number field sieve from both theoretical and practical perspectives Pollard's original manuscript is included In addition there is an annotated bibliography of directly related literature

Number-Theoretic Algorithms in Cryptography Oleg Nikolaevich Vasilenko, 2007 Algorithmic number theory is a rapidly developing branch of number theory which in addition to its mathematical importance has substantial applications in computer science and cryptography Among the algorithms used in cryptography the following are especially important algorithms for primality testing factorization algorithms for integers and for polynomials in one variable applications of the theory of elliptic curves algorithms for computation of discrete logarithms algorithms for solving linear equations over finite fields and algorithms for performing arithmetic operations on large integers The book describes the current state of these and some other algorithms It also contains extensive bibliography For this English translation additional references were prepared and commented on by the author

The Development of the Number Field Sieve Arjen K. Lenstra, Hendrik W. Jr. Lenstra, 1993-08-30 The number field sieve is an algorithm for finding the prime factors of large integers It depends on algebraic number theory Proposed by John Pollard in 1988 the method was used in 1990 to factor the ninth Fermat number a 155 digit integer The algorithm is most suited to numbers of a special form but there is a promising variant that applies in general This volume contains six research papers that describe the operation of the number field sieve from both theoretical and practical perspectives Pollard's original manuscript is included In addition there is an annotated bibliography of directly related literature

The Number Field Sieve Johnny Bigert, 2000

Number Theory and Applications S.D. Adhikari, B. Ramakrishnan, 2009-06-15 This collection of articles contains the proceedings of the two international conferences on Number Theory and Cryptography held at the Harish Chandra Research

Institute In recent years the interest in number theory has increased due to its applications in areas like error correcting codes and cryptography These proceedings contain papers in various areas of number theory such as combinatorial algebraic analytic and transcendental aspects arithmetic algebraic geometry as well as graph theory and cryptography While some papers do contain new results several of the papers are expository articles that mention open questions which will be useful to young researchers

Biscuits of Number Theory Arthur T. Benjamin,Ezra Brown,2020-07-29 An anthology of articles designed to supplement a first course in number theory

Handbook of Applied Cryptography Alfred J. Menezes,Paul C. van Oorschot,Scott A. Vanstone,2018-12-07 Cryptography in particular public key cryptography has emerged in the last 20 years as an important discipline that is not only the subject of an enormous amount of research but provides the foundation for information security in many applications Standards are emerging to meet the demands for cryptographic protection in most areas of data communications Public key cryptographic techniques are now in widespread use especially in the financial services industry in the public sector and by individuals for their personal privacy such as in electronic mail This Handbook will serve as a valuable reference for the novice as well as for the expert who needs a wider scope of coverage within the area of cryptography It is a necessary and timely guide for professionals who practice the art of cryptography The Handbook of Applied Cryptography provides a treatment that is multifunctional It serves as an introduction to the more practical aspects of both conventional and public key cryptography It is a valuable source of the latest techniques and algorithms for the serious practitioner It provides an integrated treatment of the field while still presenting each major topic as a self contained unit It provides a mathematical treatment to accompany practical discussions It contains enough abstraction to be a valuable reference for theoreticians while containing enough detail to actually allow implementation of the algorithms discussed Now in its third printing this is the definitive cryptography reference that the novice as well as experienced developers designers researchers engineers computer scientists and mathematicians alike will use

Minds, Machines, and the Multiverse Julian Brown,2002-04-05 The imminent arrival of the quantum computer millions of times faster than today s computers promises to launch a scientific gold rush of the new millennium After consulting with both the computer s debunkers and the leading minds behind the breakthrough Brown explains the quantum computer s development thus far

Cryptography and Secure Communication Richard E. Blahut,2014-03-27 Today s pervasive computing and communications networks have created an intense need for secure and reliable cryptographic systems Bringing together a fascinating mixture of topics in engineering mathematics computer science and informatics this book presents the timeless mathematical theory underpinning cryptosystems both old and new Major branches of classical and modern cryptography are discussed in detail from basic block and stream cyphers through to systems based on elliptic and hyperelliptic curves accompanied by concise summaries of the necessary mathematical background Practical aspects such as implementation authentication and protocol sharing are also covered as are the possible pitfalls surrounding various cryptographic methods

Written specifically with engineers in mind and providing a solid grounding in the relevant algorithms protocols and techniques this insightful introduction to the foundations of modern cryptography is ideal for graduate students and researchers in engineering and computer science and practitioners involved in the design of security systems for communications networks

Algorithmic Number Theory Alf J. van der Poorten, Andreas Stein, 2008-04-25 This book constitutes the refereed proceedings of the 8th International Algorithmic Number Theory Symposium ANTS 2008 held in Banff Canada in May 2008 The 28 revised full papers presented together with 2 invited papers were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on elliptic curves cryptology and generalizations arithmetic of elliptic curves integer factorization K3 surfaces number fields point counting arithmetic of function fields modular forms cryptography and number theory

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

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Algorithmic Number Theory Claus Fieker, David R. Kohel, 2003-08-02 This book constitutes the refereed proceedings of the 5th International Algorithmic Number Theory Symposium ANTS V held in Sydney Australia in July 2002 The 34 revised full papers presented together with 5 invited papers have gone through a thorough round of reviewing selection and revision The papers are organized in topical sections on number theory arithmetic geometry elliptic curves and CM point counting cryptography function fields discrete logarithms and factoring Groebner bases and complexity

Algorithmic Number Theory Henri Cohen, 1996-08-07 This book constitutes the refereed post conference proceedings of the Second International Algorithmic Number Theory Symposium ANTS II held in Talence France in May 1996 The 35 revised full papers included in the book were selected from a variety of submissions They cover a broad spectrum of topics and report state of the art research results in computational number theory and complexity theory Among the issues addressed are number fields computation Abelian varieties factoring algorithms finite fields elliptic curves algorithm complexity lattice theory and coding

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the most definitive reference on cryptography ever published and is the seminal work on cryptography Cryptographic techniques have applications far beyond the obvious uses of encoding and decoding information For developers who need to know about capabilities such as digital signatures that depend on cryptographic techniques there s no better overview than Applied Cryptography the definitive book on the subject Bruce Schneier covers general classes of cryptographic protocols and then specific techniques detailing the inner workings of real world cryptographic algorithms including the Data Encryption Standard and RSA public key cryptosystems The book includes source code listings and extensive advice on the practical aspects of cryptography implementation such as the importance of generating truly random numbers and of keeping keys secure the best introduction to cryptography I ve ever seen The book the National Security Agency wanted never to be published Wired Magazine monumental fascinating comprehensive the definitive work on cryptography for computer programmers Dr Dobbs Journal easily ranks as one of the most authoritative in its field PC Magazine The book details how programmers and electronic communications professionals can use cryptography the technique of enciphering and deciphering messages to maintain the privacy of computer data It describes dozens of cryptography algorithms gives practical advice on how to implement them into cryptographic software and shows how they can be used to solve security problems The book shows programmers who design computer applications networks and storage systems how they can build security into their software and systems With a new Introduction by the author this premium edition will be a keepsake for all those committed to computer and cyber security

The Development of the Number Field Sieve Arjen K. Lenstra,Hendrik W.Jr. Lenstra,2014-01-15 **Topics in Computational Number Theory Inspired by Peter L. Montgomery** Joppe W. Bos,Arjen K. Lenstra,2017-10-12 Peter L Montgomery has made significant contributions to computational number theory introducing many basic tools such as Montgomery multiplication Montgomery simultaneous inversion Montgomery curves and the Montgomery ladder This book features state of the art research in computational number theory related to Montgomery s work and its impact on computational efficiency and cryptography Topics cover a wide range of topics such as Montgomery multiplication for both hardware and software implementations Montgomery curves and twisted Edwards curves as proposed in the latest standards for elliptic curve cryptography and cryptographic pairings This book provides a comprehensive overview of integer factorization techniques including dedicated chapters on polynomial selection the block Lanczos method and the FFT extension for algebraic group factorization algorithms Graduate students and researchers in applied number theory and cryptography will benefit from this survey of Montgomery s work

Security, Privacy, and Applied Cryptography Engineering Benedikt Gierlichs,Sylvain Guilley,Debdeep Mukhopadhyay,2013-09-10 This book constitutes the refereed proceedings of the Third International Conference on Security Privacy and Applied Cryptography Engineering held in Kharagpur India in October 2013 The 12 papers presented were carefully reviewed and selected from 39 submissions The papers are organized in topical sections on implementations and

protocols side channel attacks and countermeasures identity based identification schemes and signatures **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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