

# 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

**Johnny Bigert**



## 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

Algorithmic Number Theory Joe P. Buhler, 1998-06-05 The field of diagnostic nuclear medicine has changed significantly during the past decade This volume is designed to present the student and the professional with a comprehensive update of recent developments not found in other textbooks on the subject The various clinical applications of nuclear medicine techniques are extensively considered and due attention is given also to radiopharmaceuticals equipment and instrumentation reconstruction techniques and the principles of gene imaging

**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

**The Development of the Number Field Sieve** Arjen K. Lenstra, Hendrik W. Jr. Lenstra, 2014-01-15

*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

*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

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

Cryptography and Secure Communication Richard E. Blahut, 2014-03-27 This fascinating book presents the timeless mathematical theory underpinning

cryptosystems both old and new written specifically with engineers in mind 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** 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

**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

**Applied Cryptography** Bruce Schneier, 2017-05-25 From the world s most renowned security technologist Bruce Schneier this 20th Anniversary Edition is 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

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**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

**Number Theory and Cryptography** Marc Fischlin, Stefan Katzenbeisser, 2013-11-21 Johannes Buchmann is internationally recognized as one of the leading figures in areas of computational number theory cryptography and information security He has published numerous scientific papers and books spanning a very wide spectrum of interests besides R D he also fulfilled lots of administrative tasks for instance building up and directing his research group CDC at Darmstadt but he also served as the Dean of the Department of Computer Science at TU Darmstadt and then went on to become Vice President of the university for six years 2001 2007 This festschrift published in honor of Johannes Buchmann on the occasion of his 60th birthday contains contributions by some of his colleagues former students and friends The papers give an overview of Johannes Buchmann s research interests ranging from computational number theory and the hardness of cryptographic assumptions to more application oriented topics such as privacy and hardware security With this book we celebrate Johannes Buchmann s vision and achievements

**Arithmetic of Finite Fields** Sylvain Duquesne, Svetla Petkova-Nikova, 2017-03-08 This book constitutes the thoroughly refereed post workshop proceedings of the 6th International Workshop on the Arithmetic of Finite

Field WAIFI 2016 held in Ghent Belgium in July 2016 The 14 revised full papers and 3 invited talks presented were carefully reviewed and selected from 38 submissions The papers are organized in topical sections on invited talks elliptic curves applications irreducible polynomials applications to cryptography Boolean functions cryptography cryptography and Boolean functions

## Unveiling the Power of Verbal Art: An Emotional Sojourn through **Number Field Sieve**

In a global inundated with screens and the cacophony of instant connection, the profound power and mental resonance of verbal art usually fade in to obscurity, eclipsed by the regular barrage of noise and distractions. However, set within the lyrical pages of **Number Field Sieve**, a fascinating perform of literary brilliance that pulses with organic emotions, lies an remarkable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, this magical opus manuals viewers on an emotional odyssey, delicately exposing the latent possible and profound impact embedded within the complicated internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect their captivating publishing style, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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