


Guide to Elliptic Curve Cryptography

*Darrel Hankerson
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Springer

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Guide to Elliptic Curve Cryptography Darrel Hankerson, Alfred J. Menezes, Scott Vanstone, 2004-01-08 After two decades of research and development elliptic curve cryptography now has widespread exposure and acceptance Industry banking and government standards are in place to facilitate extensive deployment of this efficient public key mechanism Anchored by a comprehensive treatment of the practical aspects of elliptic curve cryptography ECC this guide explains the basic mathematics describes state of the art implementation methods and presents standardized protocols for public key encryption digital signatures and key establishment In addition the book addresses some issues that arise in software and hardware implementation as well as side channel attacks and countermeasures Readers receive the theoretical fundamentals as an underpinning for a wealth of practical and accessible knowledge about efficient application Features Benefits Breadth of coverage and unified integrated approach to elliptic curve cryptosystems Describes important industry and government protocols such as the FIPS 186 2 standard from the U S National Institute for Standards and Technology Provides full exposition on techniques for efficiently implementing finite field and elliptic curve arithmetic Distills complex mathematics and algorithms for easy understanding Includes useful literature references a list of algorithms and appendices on sample parameters ECC standards and software tools This comprehensive highly focused reference is a useful and indispensable resource for practitioners professionals or researchers in computer science computer engineering network design and network data security

Guide to Elliptic Curve Cryptography Darrel Hankerson, Alfred J. Menezes, Scott Vanstone, 2006-06-01 After two decades of research and development elliptic curve cryptography now has widespread exposure and acceptance Industry banking and government standards are in place to facilitate extensive deployment of this efficient public key mechanism Anchored by a comprehensive treatment of the practical aspects of elliptic curve cryptography ECC this guide explains the basic mathematics describes state of the art implementation methods and presents standardized protocols for public key encryption digital signatures and key establishment In addition the book addresses some issues that arise in software and hardware implementation as well as side channel attacks and countermeasures Readers receive the theoretical fundamentals as an underpinning for a wealth of practical and accessible knowledge about efficient application Features Benefits Breadth of coverage and unified integrated approach to elliptic curve cryptosystems Describes important industry and government protocols such as the FIPS 186 2 standard from the U S National Institute for Standards and Technology Provides full exposition on techniques for efficiently implementing finite field and elliptic curve arithmetic Distills complex mathematics and algorithms for easy understanding Includes useful literature references a list of algorithms and appendices on sample parameters ECC standards and software tools This comprehensive highly focused reference is a useful and indispensable resource for practitioners professionals or researchers in computer science computer engineering network design and network data security

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 algebraic geometric results, the book proceeds with an exposition of the geometry and the formal group of elliptic curves over finite fields, the complex numbers, local fields, and global fields. Final chapters deal with integral and rational points, including Siegel's theorem and explicit computations for the curve $y^2 = x^3 + dx$, while three appendices conclude the whole. Elliptic Curves in Characteristics 2 and 3, Group Cohomology, and an overview of more advanced topics.

Public Key Cryptosystems Esra Bas, 2024-12-30 This book is a short book about public key cryptosystems, digital signature algorithms, and their basic cryptanalysis, which are provided at a basic level so that it can be easy to understand for the undergraduate engineering students who can be defined as the core audience. To provide the necessary background, Chapters 1 and 2 are devoted to the selected fundamental concepts in cryptography, mathematics, and selected fundamental concepts in cryptography. Chapter 3 is devoted to discrete logarithm problem, DLP, DLP related public key cryptosystems, digital signature algorithms, and their cryptanalysis. In this chapter, the elliptic curve counterparts of the algorithms and the basic algorithms for the solution of DLP are also given. In Chapter 4, RSA public key cryptosystem, RSA digital signature algorithm, the basic cryptanalysis approaches, and the integer factorization methods are provided. Chapter 5 is devoted to GGH and NTRU public key cryptosystems, GGH and NTRU digital signature algorithms, and the basic cryptanalysis approaches, whereas Chapter 6 covers other topics including knapsack cryptosystems, identity based public key cryptosystems, identity based digital signature algorithms, Goldwasser-Micali probabilistic public key cryptosystem, and their cryptanalysis. The book's distinctive features: The book provides some fundamental mathematical and conceptual preliminaries required to understand the core parts of the book. The book comprises the selected public key cryptosystems, digital signature algorithms, and the basic cryptanalysis approaches for these cryptosystems and algorithms. The cryptographic algorithms and most of the solutions of the examples are provided in a structured table format to support easy learning. The concepts and algorithms are illustrated with examples, some of which are revisited multiple times to present alternative approaches. The details of the topics covered in the book are intentionally not presented; however, several references are provided at the end of each chapter so that the reader can read those references for more details.

Cryptographic Hardware and Embedded Systems - CHES 2007 Pascal Paillier, 2007-08-28 This book constitutes the refereed proceedings of the 9th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2007. The 31 revised full papers cover side channels, low resources hardware attacks, and countermeasures, special purpose hardware, efficient algorithms for embedded processors, efficient hardware, trusted computing.

Untangling the Web, 2013 Use the internet like a real spy. Untangling the Web is the National Security Agency's once classified guide to finding information on the internet. From the basic to the advanced, this 650 page book offers a fascinating look at tricks the real spies use to

uncover hidden and not so hidden information online Chapters include Google hacks Metasearch sites Custom search engines Maps mapping Uncovering the invisible internet Beyond search engines Specialized research tools Email lookups Finding people Researching companies A plain english guide to interworking Internet toolkits Finding ISPs Cybergeography Internet privacy and security and over a hundred more chapters This quote from the authors hints at the investigative power of the techniques this book teaches Nothing I am going to describe to you is illegal nor does it in any way involve accessing unauthorized data but involves using publicly available search engines to access publicly available information that almost certainly was not intended for public distribution From search strings that will reveal secret documents from South Africa filetype xls site za confidential to tracking down tables of Russian passwords filetype xls site ru login this is both an instructive and voyeuristic look at how the most powerful spy agency in the world uses Google

Handbook of Finite Fields Gary L. Mullen, Daniel Panario, 2013-06-17 Poised to become the leading reference in the field the Handbook of Finite Fields is exclusively devoted to the theory and applications of finite fields More than 80 international contributors compile state of the art research in this definitive handbook Edited by two renowned researchers the book uses a uniform style and format throughout and Advances in Cryptology - ASIACRYPT 2021 Mehdi Tibouchi, Huaxiong Wang, 2021-11-30 The four volume proceedings LNCS 13090 13091 13092 and 13093 constitutes the proceedings of the 27th International Conference on the Theory and Application of Cryptology and Information Security ASIACRYPT 2021 which was held during December 6 10 2021 The conference was planned to take place in Singapore but changed to an online format due to the COVID 19 pandemic The total of 95 full papers presented in these proceedings was carefully reviewed and selected from 341 submissions The papers were organized in topical sections as follows Part I Best paper awards public key cryptanalysis symmetric key cryptanalysis quantum security Part II physical attacks leakage and countermeasures multiparty computation enhanced public key encryption and time lock puzzles real world protocols Part III NIZK and SNARKs theory symmetric key constructions homomorphic encryption and encrypted search Part IV Lattice cryptanalysis post quantum cryptography advanced encryption and signatures zero knowledge proofs threshold and multi signatures authenticated key exchange Cryptographic Primitives in Blockchain Technology Andreas Bolting, 2020-09-09 Many online applications especially in the financial industries are running on blockchain technologies in a decentralized manner without the use of an authoritative entity or a trusted third party Such systems are only secured by cryptographic protocols and a consensus mechanism As blockchain based solutions will continue to revolutionize online applications in a growing digital market in the future one needs to identify the principal opportunities and potential risks Hence it is unavoidable to learn the mathematical and cryptographic procedures behind blockchain technology in order to understand how such systems work and where the weak points are Cryptographic Primitives in Blockchain Technology provides an introduction to the mathematical and cryptographic concepts behind blockchain technologies and shows how they are applied in blockchain based systems This

includes an introduction to the general blockchain technology approaches that are used to build the so called immutable ledgers which are based on cryptographic signature schemes As future quantum computers will break some of the current cryptographic primitive approaches Andreas Bolting considers their security and presents the current research results that estimate the impact on blockchain based systems if some of the cryptographic primitive break Based on the example of Bitcoin he shows that weak cryptographic primitives pose a possible danger for the ledger which can be overcome through the use of the so called post quantum cryptographic approaches

Advances in Computing and Data Sciences Mayank Singh,P. K. Gupta,Vipin Tyagi,Jan Flusser,Tuncer Ören,2018-10-25 This two volume set CCIS 905 and CCIS 906 constitutes the refereed proceedings of the Second International Conference on Advances in Computing and Data Sciences ICACDS 2018 held in Dehradun India in April 2018 The 110 full papers were carefully reviewed and selected from 598 submissions The papers are centered around topics like advanced computing data sciences distributed systems organizing principles development frameworks and environments software verification and validation computational complexity and cryptography machine learning theory database theory probabilistic representations

Emerging Security Algorithms and Techniques Khaleel Ahmad,M. N. Doja,Nur Izura Udzir,Manu Pratap Singh,2019-05-20 Cyber security is the protection of information systems hardware software and information as well from theft damages interruption or misdirection to any of these resources In other words cyber security focuses on protecting computers networks programs and data in use in rest in motion from unauthorized or unintended access change or destruction Therefore strengthening the security and resilience of cyberspace has become a vital homeland security mission Cyber security attacks are growing exponentially Security specialists must occupy in the lab concocting new schemes to preserve the resources and to control any new attacks Therefore there are various emerging algorithms and techniques viz DES AES IDEA WAKE CAST5 Serpent Algorithm Chaos Based Cryptography McEliece Niederreiter NTRU Goldreich Goldwasser Halevi Identity Based Encryption and Attribute Based Encryption There are numerous applications of security algorithms like cyber security web security e commerce database security smart card technology mobile security cloud security digital signature etc The book offers comprehensive coverage of the most essential topics including Modular Arithmetic Finite Fields Prime Number DLP Integer Factorization Problem Symmetric Cryptography Asymmetric Cryptography Post Quantum Cryptography Identity Based Encryption Attribute Based Encryption Key Management Entity Authentication Message Authentication Digital Signatures Hands On SageMath This book serves as a textbook reference book for UG PG PhD students Teachers Researchers and Engineers in the disciplines of Information Technology Computer Science and Engineering and Electronics and Communication Engineering

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

Information Security, Practice and Experience Jin Kwak,Robert H. Deng,Guilin Wang,Yoojae Won,2010-04-23 This book constitutes the proceedings of the 6th International Conference on Information Security Practice and Experience ISPEC 2010 held in Seoul Korea in May 2010 The 28 papers presented in this volume were carefully reviewed and selected from 91 submissions They are grouped in sections on cryptanalysis algorithms and implementations network security access control identity management trust management public key cryptography and security applications

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 software 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 ernational 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

VLSI for Embedded Intelligence Anu Gupta,Jai Gopal Pandey,Nitin Chaturvedi,Devesh Dwivedi,2024-10-27 This book constitutes the proceedings of the 27th International Symposium on VLSI Design and Test VDAT 2023 The 32 regular papers and 16 short papers presented in this book are carefully reviewed and selected from 220 submissions They are organized in topical sections as follows Low Power Integrated Circuits and Devices FPGA Based Design and Embedded Systems Memory Computing and Processor Design CAD for VLSI Emerging Integrated Circuits and Systems VLSI Testing and Security and System Level Design

Topics in Cryptology - CT-RSA 2016 Kazue Sako,2016-02-02 This book constitutes the refereed proceedings of the Cryptographer s Track at the RSA Conference 2016 CT RSA 2016 held in San Francisco CA USA in February March 2016 The 26 papers presented in this volume were carefully reviewed and selected from 76 submissions The focus of the track is on following subjects secure key exchange schemes authenticated encryption searchable symmetric encryption digital signatures with new functionality secure multi party computation how to verify procedures side channel attacks on elliptic

curve cryptography hardware attacks and security structure preserving signatures lattice cryptography cryptanalysis of symmetric key encryption message authentication code and PRF security and security of public key encryption

Algorithmic Number Theory Alf J. van der Poorten, Andreas Stein, 2008-05-07 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 Cyberspace Safety and Security Guojun Wang, Indrakshi Ray, Dengguo

Feng, Muttukrishnan Rajarajan, 2013-11-08 This book constitutes the proceedings of the 5th International Symposium on Cyberspace Safety and Security CSS 2013 held in Zhangjiajie China in November 2013 The 30 full papers presented in this volume were carefully reviewed and selected from 105 submissions In addition the book contains 6 workshop papers The papers are organized in topical sections named data and applications security network and communications security software and systems security and cloud security and cyberspace safety **Security and Cryptography for Networks** Ivan

Visconti, Roberto De Prisco, 2012-08-30 This book constitutes the proceedings of the 8th International Conference on Security and Cryptography SCN 2012 held in Amalfi Italy in September 2012 The 31 papers presented in this volume were carefully reviewed and selected from 72 submissions They are organized in topical sections on cryptography from lattices signature schemes encryption schemes efficient two party and multi party computation security in the UC framework cryptanalysis efficient constructions and protocols and combiners **Sustainable Communication Networks and Application** P.

Karrupusamy, Joy Chen, Yong Shi, 2019-11-06 This book presents state of the art theories and technologies and discusses developments in the two major fields engineering and sustainable computing In this modern era of information and communication technologies ICT there is a growing need for new sustainable and energy efficient communication and networking technologies The book highlights significant current and potential international research relating to theoretical and practical methods toward developing sustainable communication and networking technologies In particular it focuses on emerging technologies such as wireless communications mobile networks Internet of things IoT sustainability and edge network models The contributions cover a number of key research issues in software defined networks blockchain technologies big data edge fog computing computer vision sentiment analysis cryptography energy efficient systems and cognitive platforms

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