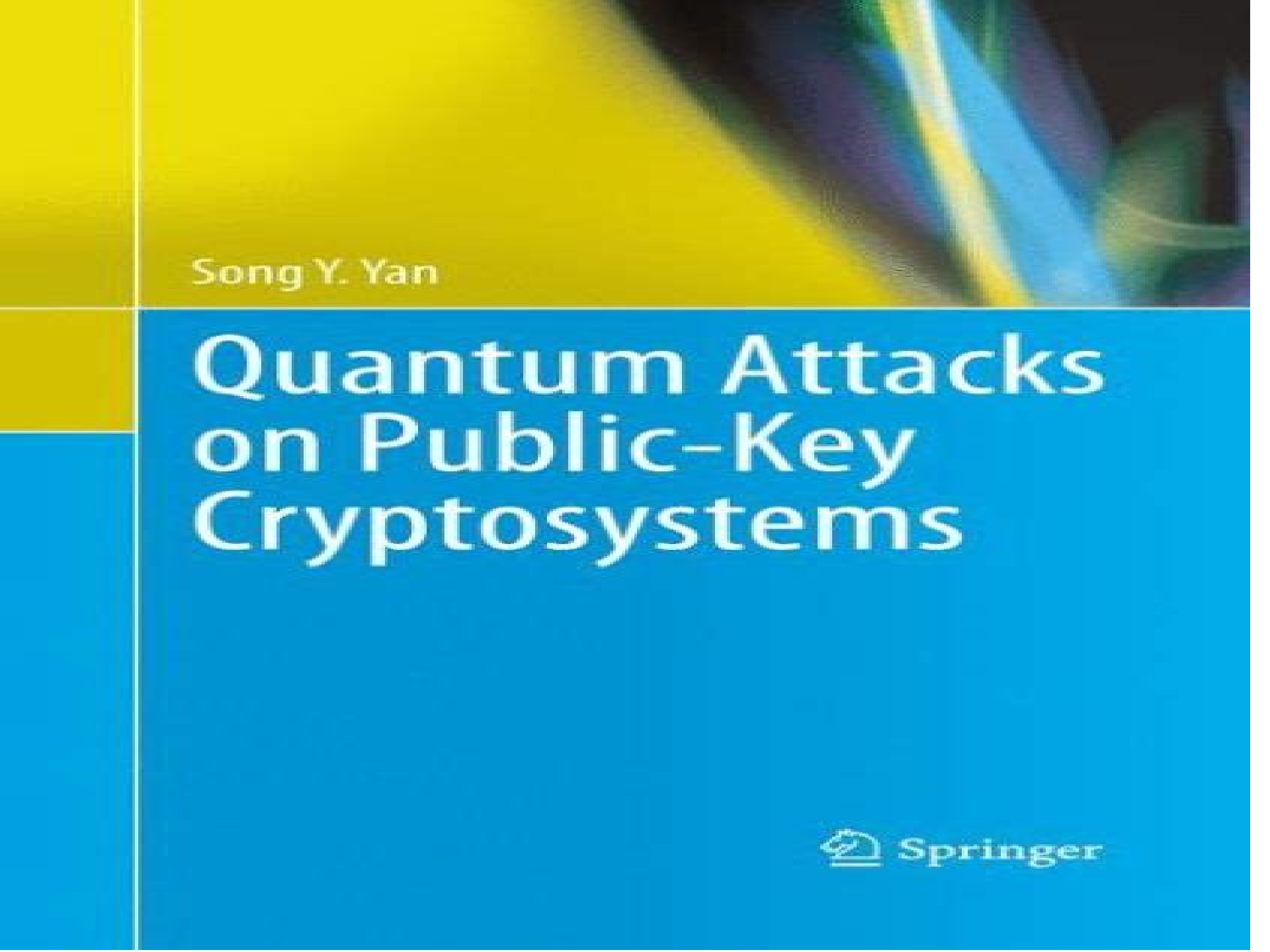




Song Y. Yan

Quantum Attacks on Public-Key Cryptosystems

 Springer

Quantum Attacks On Public Key Cryptosystems

David Lee Kuo Chuen, Robert H. Deng



Quantum Attacks On Public Key Cryptosystems:

Quantum Attacks on Public-Key Cryptosystems Song Y. Yan, 2014-07-08 The cryptosystems based on the Integer Factorization Problem IFP the Discrete Logarithm Problem DLP and the Elliptic Curve Discrete Logarithm Problem ECDLP are essentially the only three types of practical public key cryptosystems in use The security of these cryptosystems relies heavily on these three infeasible problems as no polynomial time algorithms exist for them so far However polynomial time quantum algorithms for IFP DLP and ECDLP do exist provided that a practical quantum computer exists Quantum Attacks on Public Key Cryptosystems presents almost all known quantum computing based attacks on public key cryptosystems with an emphasis on quantum algorithms for IFP DLP and ECDLP It also discusses some quantum resistant cryptosystems to replace the IFP DLP and ECDLP based cryptosystems This book is intended to be used either as a graduate text in computing communications and mathematics or as a basic reference in the field

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

Cryptanalytic Attacks on RSA Song Y. Yan, 2007-11-15 RSA is the first workable and practicable public key cryptographic system based on the use of large prime numbers It is also the most popular and widely used cryptographic system in today's digital world for which its three inventors Rivest Shamir and Adleman received the year

2002 Turing Award the equivalent Nobel Prize in Computer Science Cryptanalytic Attacks on RSA covers almost all major known cryptanalytic attacks and defenses of the RSA cryptographic system and its variants Since RSA depends heavily on computational complexity theory and number theory background information on complexity theory and number theory is presented first This is followed by an account of the RSA cryptographic system and its variants Cryptanalytic Attacks on RSA is designed for a professional audience of practitioners and researchers in industry and academia and as a reference or secondary text for advanced level students in computer science applied mathematics electrical communication engineering

Security and Privacy in New Computing Environments Jin Li,Zheli Liu,Hao Peng,2019-06-07 This book constitutes the refereed proceedings of the 2nd EAI International Conference on Security and Privacy in New Computing Environments SPNCE 2019 held in Tianjin China in April 2019 The 62 full papers were selected from 112 submissions and are grouped into topics on privacy and security analysis Internet of Things and cloud computing system building scheme model and

application for data mechanism and method in new computing **Codes Caverns and Ciphers** Pasquale De Marco,2025-04-21 Journey into the captivating world of codes and ciphers where secrecy and ingenuity collide Discover the intricate mechanisms and profound impact of these enigmatic systems that have shaped history safeguarded secrets and enabled secure communication for centuries From ancient times when simple substitution ciphers concealed military messages to the modern era of digital encryption that underpins the security of our online world this comprehensive exploration unveils the secrets behind these fascinating tools Delve into the ingenious Enigma machine that perplexed Allied forces during World War II and unravel the sophisticated algorithms that protect our digital transactions today Throughout the chapters of this book you will embark on a chronological journey through the annals of cryptography tracing its evolution from ancient techniques to cutting edge advancements Explore the diverse applications of cryptography from securing confidential communications and protecting sensitive data to its implications for national security and international diplomacy Uncover the ethical considerations surrounding codebreaking and the delicate balance between privacy and national security Compelling case studies highlight the moral dilemmas faced by codebreakers and the profound impact of their decisions on the course of history Drawing inspiration from the past this book also gazes into the future of cryptography contemplating the emerging frontiers of post quantum cryptography and the potential of artificial intelligence to revolutionize the field Whether you are a seasoned cryptographer a history buff or simply intrigued by the art of codebreaking this book offers a captivating exploration of the world of codes and ciphers Prepare to be enthralled as you uncover the secrets of these enigmatic systems and delve into the fascinating stories of the codebreakers who deciphered them If you like this book write a review on google books **Handbook of Blockchain, Digital Finance, and Inclusion, Volume 3** David Lee Kuo Chuen,Robert H. Deng,2025-04-25 Handbook of Blockchain Digital Finance and Inclusion Volume Three Web3 AI Privacy and Greentech presents the latest technological developments and innovations occurring in

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Cryptography, Codes and Cyber Security
 Abderrahmane Nitaj, Karim Zikik, 2023-01-01 This book constitutes the refereed First International Conference on Cryptography Codes and Cyber Security I4CS 2022 held in Casablanca Morocco during October 27 28 2022 The 4 full papers and 3 invited papers presented in this book were carefully reviewed and selected from 12 submissions They were organized in topical sections as invited papers and contributed papers

Computational Number Theory and Modern Cryptography
 Song Y. Yan, 2013-01-29 The only book to provide a unified view of the interplay between computational number theory and cryptography Computational number theory and modern cryptography are two of the most important and fundamental research fields in information security In this book Song Y Yang combines knowledge of these two critical fields providing a unified view of the relationships between computational number theory and cryptography The author takes an innovative approach presenting mathematical ideas first thereupon treating cryptography as an immediate application of the mathematical concepts The book also presents topics from number theory which are relevant for applications in public key cryptography as well as modern topics such as coding and lattice based cryptography for post quantum cryptography The author further covers the current research and applications for common cryptographic algorithms describing the mathematical problems behind these applications in a manner accessible to computer scientists and engineers Makes mathematical problems accessible to computer scientists and engineers by showing their immediate application Presents topics from number theory relevant for public key cryptography applications Covers modern topics such as coding and lattice based cryptography for post quantum cryptography Starts with the basics then goes into applications and areas of active research Geared at a global audience classroom tested in North America Europe and Asia Includes exercises in every chapter Instructor resources available on the book's Companion Website Computational Number Theory and Modern Cryptography is ideal for graduate and advanced undergraduate students in computer science communications engineering cryptography and

mathematics Computer scientists practicing cryptographers and other professionals involved in various security schemes will also find this book to be a helpful reference Information and Communications Security Sihan Qing,Eiji Okamoto,Kwangjo Kim,Dongmei Liu,2016-03-08 This book constitutes the thoroughly refereed post conference proceedings of the 17th International Conference on Information and Communications Security ICISC 2015 held in Beijing China in December 2015 The 24 revised full papers and 19 short papers presented were carefully selected from 148 submissions The papers provide the latest results in research and development in the field of information security and applied cryptology **Cryptography And Computer Science** Rob Botwright,2023 Unveil the Secrets of Digital Security with Cryptography and Computer Science Bundle Are you ready to explore the thrilling world of cryptography and computer science Dive into the depths of digital secrecy protection and innovation with our comprehensive book bundle the Cryptography and Computer Science Design Manual for Algorithms Codes and Ciphers Book 1 Introduction to Cryptography A Beginner s Guide Perfect for beginners this guide demystifies the world of cryptography making complex concepts accessible to all Explore encryption decryption keys and foundational principles that secure our digital world Book 2 Cryptographic Algorithms and Protocols A Comprehensive Guide Take a deeper dive into the core of cryptography Discover the inner workings of cryptographic algorithms and protocols that safeguard online communications transactions and data Book 3 Advanced Cryptanalysis Breaking Codes and Ciphers Uncover the secrets of code breaking Explore classical and contemporary cryptanalysis techniques and think like a cryptanalyst Book 4 Cutting Edge Cryptography Emerging Trends and Future Directions Project yourself into the future of cryptography Stay ahead of the curve with insights into quantum computing post quantum cryptography and emerging cryptographic trends Why Choose Our Bundle Unlock the secrets of digital security and challenge your intellect Whether you re a beginner or a pro these books cater to all levels of expertise Prepare for the future of cryptography and stay at the forefront of digital security Get Your Bundle Today Don t miss out on this exclusive opportunity to master cryptography and computer science Grab the Cryptography and Computer Science bundle now and embark on a thrilling journey into the world of digital security Secure your copy today and embrace the future of digital protection

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