

Cryptanalytic Attacks on **RSA**

Song Y. Yan

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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

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

2022 Applied Mathematics and Statistics - Editor's Pick Charles K. Chui, Eric Chung, Jianfeng Cai, Raluca Eftimie, Hong-Kun Xu, Daniel Potts, Young Shin Aaron Kim, Axel Hutt, 2023-04-06

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

Cryptanalysis of RSA and Its Variants M. Jason Hinek, 2009-07-21 Thirty years after RSA was first publicized it remains an active research area Although several good surveys exist they are either slightly outdated or only focus on one type of attack Offering an updated look at this field Cryptanalysis of RSA and Its Variants presents the best known mathematical attacks on RSA and its main variants includin

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