

Review of
Cryptography: Theory and Practice, Second Edition
Author of Book: Douglas R. Stinson
Publisher: CRC Press (339 pages)

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1 Introduction

For thousands of years, men have used codes and ciphers to communicate in secret. Historically, the security of a cryptosystem was based in secrecy: the enemy was unaware of how messages were being encoded, and if there were intercepted, would have no idea how to decrypt them. In modern times, messages are often encrypted on the assumption that the enemy knows everything about the cryptosystem, with the exception of the secret key used to encrypt the message. As a result, modern cryptosystems are often mathematically complex, relying on functions that are difficult to break even when massive computing power is brought to bear. Mathematically defined, a cipher is a function which takes as input a plaintext message x and a key k , and returns an encrypted message y . A cryptosystem is often defined as a five-tuple (P, C, K, E, D) where P is the set of all possible plaintexts, C is the set of all possible ciphertexts, K is the keyspace, or the set of all possible keys, and E and D are encryption/decryption functions. E and D are chosen such that for every key k , E_k maps P onto C , D_k maps C onto P , and $D_k(E_k(x)) = x$ for every plaintext element x in P . These functions can be anything from simple substitution (replace every A with D , for example) to complex mathematical functions.

2 Chapter 1: Classical Cryptography

No introduction to cryptography would be complete without mentioning some of the classical ciphers, such as the simple Caesar Cipher, which is a simple shift cipher purportedly used by Julius Caesar. For $P = C = K = Z_{26}$, (that is, the plaintext, ciphertext, and keyspace are all integers mod 26, where $A = 0$, $B = 1$, etc) we define $E_k(x) = (x + k) \pmod{26}$ and $D_k(y) = (y - k) \pmod{26}$. Other monoalphabetic ciphers covered in this chapter include the Substitution Cipher (where each letter is represented by another letter; this is known as a permutation cipher) and the Affine Cipher (in which the encryption functions are restricted to the form $e(x) = (ax + b) \pmod{26}$). Polyalphabetic ciphers include the Vigenere cipher, which is a shift cipher that uses a different

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KHUMANTHEM MANGLEM. SINGH



Douglas Stinson Cryptography Theory And Practice 2nd Edition Chapman Amp Hall Crc:

Cryptography Douglas R. Stinson, 2005-11-01 THE LEGACY First introduced in 1995 Cryptography Theory and Practice garnered enormous praise and popularity and soon became the standard textbook for cryptography courses around the world The second edition was equally embraced and enjoys status as a perennial bestseller Now in its third edition this authoritative text continues to provide a solid foundation for future breakthroughs in cryptography WHY A THIRD EDITION The art and science of cryptography has been evolving for thousands of years Now with unprecedented amounts of information circling the globe we must be prepared to face new threats and employ new encryption schemes on an ongoing basis This edition updates relevant chapters with the latest advances and includes seven additional chapters covering Pseudorandom bit generation in cryptography Entity authentication including schemes built from primitives and special purpose zero knowledge schemes Key establishment including key distribution and protocols for key agreement both with a greater emphasis on security models and proofs Public key infrastructure including identity based cryptography Secret sharing schemes Multicast security including broadcast encryption and copyright protection THE RESULT Providing mathematical background in a just in time fashion informal descriptions of cryptosystems along with more precise pseudocode and a host of numerical examples and exercises Cryptography Theory and Practice Third Edition offers comprehensive in depth treatment of the methods and protocols that are vital to safeguarding the mind boggling amount of information circulating around the world Cryptography Douglas Robert Stinson, Maura Paterson, 2018-08-14 Through three editions Cryptography Theory and Practice has been embraced by instructors and students alike It offers a comprehensive primer for the subject s fundamentals while presenting the most current advances in cryptography The authors offer comprehensive in depth treatment of the methods and protocols that are vital to safeguarding the seemingly infinite and increasing amount of information circulating around the world Key Features of the Fourth Edition New chapter on the exciting emerging new area of post quantum cryptography Chapter 9 New high level nontechnical overview of the goals and tools of cryptography Chapter 1 New mathematical appendix that summarizes definitions and main results on number theory and algebra Appendix A An expanded treatment of stream ciphers including common design techniques along with coverage of Trivium Interesting attacks on cryptosystems including padding oracle attack correlation attacks and algebraic attacks on stream ciphers attack on the DUAL EC random bit generator that makes use of a trapdoor A treatment of the sponge construction for hash functions and its use in the new SHA 3 hash standard Methods of key distribution in sensor networks The basics of visual cryptography allowing a secure method to split a secret visual message into pieces shares that can later be combined to reconstruct the secret The fundamental techniques cryptocurrencies as used in Bitcoin and blockchain The basics of the new methods employed in messaging protocols such as Signal including deniability and Diffie Hellman key ratcheting **Cryptography** Douglas R. Stinson, 2002-02-27 The Advanced Encryption Standard AES

elliptic curve DSA the secure hash algorithm these and other major advances made in recent years precipitated this comprehensive revision of the standard setting text and reference *Cryptography Theory and Practice* Now more tightly focused on the core areas it contains many additional topics as well as thoroughly updated treatments of topics presented in the first edition There is increased emphasis on general concepts but the outstanding features that first made this a bestseller all remain including its mathematical rigor numerous examples pseudocode descriptions of algorithms and clear precise explanations Highlights of the Second Edition Explains the latest Federal Information Processing Standards including the Advanced Encryption Standard AES the Secure Hash Algorithm SHA 1 and the Elliptic Curve Digital Signature Algorithm ECDSA Uses substitution permutation networks to introduce block cipher design and analysis concepts Explains both linear and differential cryptanalysis Presents the Random Oracle model for hash functions Addresses semantic security of RSA and Optional Asymmetric Encryption Padding Discusses Wiener's attack on low decryption exponent RSA Overwhelmingly popular and relied upon in its first edition now more than ever *Cryptography Theory and Practice* provides an introduction to the field ideal for upper level students in both mathematics and computer science More highlights of the Second Edition Provably secure signature schemes Full Domain Hash Universal hash families Expanded treatment of message authentication codes More discussions on elliptic curves Lower bounds for the complexity of generic algorithms for the discrete logarithm problem Expanded treatment of factoring algorithms Security definitions for signature schemes

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substitution transposition Alberti Vigen re and Hill ciphers It also includes coverage of the Enigma machine Turing bombe and Navajo code Additionally the book presents modern methods like RSA ElGamal and stream ciphers as well as the Diffie Hellman key exchange and Advanced Encryption Standard When possible the book details methods for breaking both classical and modern methods The new edition expands upon the material from the first edition which was oriented for students in non technical fields At the same time the second edition supplements this material with new content that serves students in more technical fields as well Thus the second edition can be fully utilized by both technical and non technical students at all levels of study The authors include a wealth of material for a one semester cryptology course and research exercises that can be used for supplemental projects Hints and answers to selected exercises are found at the end of the book Features Requires no prior programming knowledge or background in college level mathematics Illustrates the importance of cryptology in cultural and historical contexts including the Enigma machine Turing bombe and Navajo code Gives straightforward explanations of the Advanced Encryption Standard public key ciphers and message authentication Describes the implementation and cryptanalysis of classical ciphers such as substitution transposition shift affine Alberti Vigen re and Hill

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