

Understanding Cryptography

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Understanding Cryptography

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scientists who are interested in a solid understanding of modern cryptography The book has many features that make it a unique source for practitioners and stu-dents We focused on practical relevance by introducing most crypto algorithms that are used in modern real-world applications For every crypto scheme, up-to-date se-

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11/29 Chapter 3 of Understanding Cryptography by Christof Paar and Jan Pelzl • Bitwise initial permutation, then 16 rounds 1 Plaintext is split into 32-bit halves L_i and R_i 2 R_i is fed into the function f , the output of which is then XORed with L_i 3 Left and right half are swapped • Rounds can be expressed as: The DES Feistel Network (1) • DES structure is a Feistel network

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7/26 Chapter 10 of Understanding Cryptography by Christof Paar and Jan Pelzl Main idea • For a given message x , a digital signature is appended to the message (just like a conventional signature) • Only the person with the private key should be able to generate the signature • The signature must change for every document \Rightarrow The signature is realized as a function with the

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dations of the area have been strengthened; we now have a solid understanding of security definitions and of ways to prove constructions secure Also in the area of applied cryptography we witness very fast developments: old algorithms are broken and withdrawn and new algorithms and protocols

emerge

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4 Although confidentiality is the traditional application of cryptography, it is also used nowadays to achieve broader objectives, such as data authentication, digital signatures and non-repudiation³ The way cryptography works is illustrated in Fig 1

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understanding of applied cryptography After an introduction to cryptography and data security, the authors explain the main techniques in modern cryptography, with chapters addressing stream ciphers, the Data Encryption Standard (DES) and 3DES, the Advanced Encryption Standard (AES),

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Review of the book Understanding Cryptography by Christof ...

Review of the book "Understanding Cryptography" by Christof Paar and Jan Pelzl Springer, 2010 ISBN: 978-3-642-04100-6 Luigi Lo Iacono 1 What the book is about Yet another introductory book on cryptography!? This is what most people from the community might think, when they rst glimpse at the present book by Christof Paar and Jan Pelzl And that

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Chapter 4 of Understanding Cryptography by Christof Paar and Jan Pelzl Some Basic Facts • AES is the most widely used symmetric cipher today • The algorithm for AES was chosen by the US National Institute of Standards and Technology (NIST) in a multi-year selection process