An introduction to computer cryptography

A book by Behrad.B(TadavomnisT)

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Introduction:

Cryptography is one of the most important branches of science that are widely discussed in computer science today. In truth cryptography is nothing but mathematics in a specific type of subjects that will provide us approaches in order to formulate data mathematically to hide the plain data within a math problem. This will lead us into privacy and security. In this book I intend to introduce computer cryptography from the scratch, and explain it's concepts from the absolute basics. I am not an expert in this line of work nor academically inclined, but I experienced cryptography in practice, and I hope to be able to share my limited knowledge with others by means of this book.

Behrad.B

Chapter 1: What is cryptography?

- 1.1 What is the concept of cryptography?
- 1.1.1 Encryption / Cipher
- 1.1.2 Decryption / Decipher
- 1.2 Why is cryptography such an important matter?
- 1.3 A few quotes on cryptography

Chapter 2: What is NOT cryptography?!

- 2.1 Coding / Encoding
- 2.2 Hash

2.3 Obfuscation 2.4 Steganography 2.5 Compression **Chapter 3 : What is Symmetric Cryptography?** 3.1 What is the meaning of symmetric cryptography? 3.2 Simple asymmetric encryption examples 3.3 AES? 3.4 DES? **Chapter 4: What is Asymmetric Cryptography?** 3.1 What is asymmetric cryptography and why it's needed? 3.2 Diffie-Hellman 3.3 RSA? **Chapter 5 : Cryptographic hash** 3.1 What is a Cryptographic hash? 3.2 MD5 3.3 SHA **Chapter 6 : Elliptic Curves Chapter 7 : Quantum Cryptography Chapter 8: Cryptography in practice** 7.1 SSL **Chapter 9: Cryptocurrency**

Chapter 10. Common actacks in cryptography						
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Chanter 10 · Common attacks in cryptography

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