

Cryptography

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Chapter 1

Overview of cryptographic

1.0.1 Secure Communication!

- Alice need to send a valuable item to Bob through post. However, there is no guarantee that the item will not be stolen while in transit.
- How can Alice and Bob can come up with a secure way to send the item through the post?
 - What is your solution?
 - Can you improve your solution?

What is Cryptography?

Cryptography (cryptology) is the (mathematical) science of techniques for secure communication in the presence of an adversary.

1.1 Substitution ciphers

1.2 Cryptographic goals

1.3 Basic terminology and concepts

1.4 Symmetric-key encryption

1.5 Introduction to cryptoanalysis

Chapter 2

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