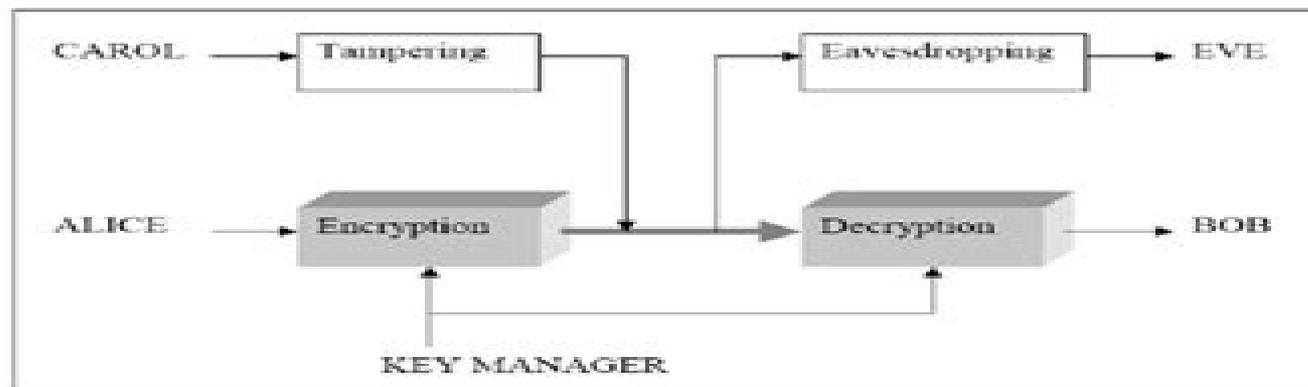


# Cryptology

## 1 Basic concepts

The word Cryptology comes from the Greek words *kryptos*, which means hidden and *logos*, which means word. It is the branch of science that deals with secret communications and information security and privacy. Mathematical techniques are investigated and developed to provide

- 1) **confidentiality** (the information is available only to those people who have the right to it)
- 2) **integrity** (the information is protected against illegal changes)
- 3) **authenticity** (the identity of partners (people, computers, programs) is possible to check)



**Sender:** Alice in the figure above, person, bank, ATM machine, computer, satellite, company,....

**Receiver:** Bob in the figure above, person, bank, ATM machine, computer, satellite, company,....

**Plaintext** is a message (clear text, original text, source text) that should be securely transmitted from the sender to the receiver.

**Encryption** is a process (a math function, an algorithm) by which the plaintext is transformed into a hidden "non understandable" message, called **ciphertext** or **cryptotext**.

**Decryption** is a process (a math function, an algorithm) by which the ciphertext is turned into its original plaintext.

A sender and a receiver communicate through communication channel (computer network, radio broadcast, mobile phone...). It is supposed that the channel is insecure (for example a computer network which is controlled by technicians, administrators etc.) Therefore, other, unauthorized people can control the network flow too.

# Basic Concepts In Cryptology An Interactive Tutorial

**Yehuda Lindell**



## **Basic Concepts In Cryptology An Interactive Tutorial:**

*Fundamentals of Cryptology* Henk C.A. van Tilborg, 1999-12-31 The protection of sensitive information against unauthorized access or fraudulent changes has been of prime concern throughout the centuries Modern communication techniques using computers connected through networks make all data even more vulnerable for these threats Also new issues have come up that were not relevant before e g how to add a digital signature to an electronic document in such a way that the signer can not deny later on that the document was signed by him her Cryptology addresses the above issues It is at the foundation of all information security The techniques employed to this end have become increasingly mathematical of nature This book serves as an introduction to modern cryptographic methods After a brief survey of classical cryptosystems it concentrates on three main areas First of all stream ciphers and block ciphers are discussed These systems have extremely fast implementations but sender and receiver have to share a secret key Public key cryptosystems the second main area make it possible to protect data without a prearranged key Their security is based on intractable mathematical problems like the factorization of large numbers The remaining chapters cover a variety of topics such as zero knowledge proofs secret sharing schemes and authentication codes Two appendices explain all mathematical prerequisites in great detail One is on elementary number theory Euclid s Algorithm the Chinese Remainder Theorem quadratic residues inversion formulas and continued fractions The other appendix gives a thorough introduction to finite fields and their algebraic structure

**Tutorials on the Foundations of Cryptography** Yehuda Lindell, 2017-04-05 This is a graduate textbook of advanced tutorials on the theory of cryptography and computational complexity In particular the chapters explain aspects of garbled circuits public key cryptography pseudorandom functions one way functions homomorphic encryption the simulation proof technique and the complexity of differential privacy Most chapters progress methodically through motivations foundations definitions major results issues surrounding feasibility surveys of recent developments and suggestions for further study This book honors Professor Oded Goldreich a pioneering scientist educator and mentor Oded was instrumental in laying down the foundations of cryptography and he inspired the contributing authors Benny Applebaum Boaz Barak Andrej Bogdanov Iftach Haitner Shai Halevi Yehuda Lindell Alon Rosen and Salil Vadhan themselves leading researchers on the theory of cryptography and computational complexity The book is appropriate for graduate tutorials and seminars and for self study by experienced researchers assuming prior knowledge of the theory of cryptography *CompTIA Security+ Deluxe Study Guide with Online Labs* Mike Chapple, David Seidl, 2021-04-13 Learn the key objectives and most crucial concepts covered by the Security Exam SY0 601 with this comprehensive and practical Deluxe Study Guide Covers 100% of exam objectives including threats attacks and vulnerabilities technologies and tools architecture and design identity and access management risk management cryptography and PKI and much more Includes interactive online learning environment and study tools with 4 custom practice exams 100 Electronic Flashcards Searchable key term glossary Plus 33 Online Security Practice Lab

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implementation pitfalls and addressing emerging trends like post quantum cryptography the book prepares readers for further studies or immediate application of cryptographic principles in software projects and professional environments

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