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# Cryptography And Network Security: Principles And Practice (2nd Edition)



## Synopsis

Appropriate for undergraduate and graduate level courses in Cryptography and Computer security. Best-selling author and two-time winner of the TEXTY award for the best Computer Science and Engineering text, William Stallings provides a practical survey of both the principles and practice of cryptography and network security. This text, which won the 1999 TAA Award for the best computer science and engineering textbook of the year, has been completely updated to reflect the latest developments in the field. It has also been extensively reorganized to provide the optimal sequence for classroom instruction and self-study.

## Book Information

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## Customer Reviews

This book is intended to serve both as a textbook for an academic course of study, and as a self-study and reference guide for practicing professionals. The material has been extended to emphasize encryption and its central position in network protection. The structure and flow have been reorganized with both classroom use and solo instruction in mind, and additional teaching material, such as additional problems, have been added. Chapter one is an introduction to the topics to be covered. In a practical way it outlines the concerns involved in the phrase computer security, and the priorities occasioned by the networked nature of modern computing. There is also an outline of the chapters and sequence in the rest of the book. While the text does note that cryptographic techniques underlie most of current security technologies this is only done briefly. Examples in the major categories listed would help explain this primary position. Part one deals with conventional,

symmetric, encryption and the various methods of attacking it. Chapter two covers the historical substitution and transposition ciphers. Symmetric block ciphers are discussed in chapter three, illustrated by an explanation of DES (Data Encryption Standard). The additional conventional algorithms of triple DES, IDEA (International Data Encryption Algorithm), and RC5 are reviewed in chapter four. The use of conventional encryption for confidentiality is outlined in chapter five. Part three looks at public-key encryption and hash functions. Chapter six introduces public-key encryption and its uses in confidentiality, authentication, and key management and exchange. Number theory is the basis of these modern algorithms, so some basic mathematical concepts are outlined in chapter seven.

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