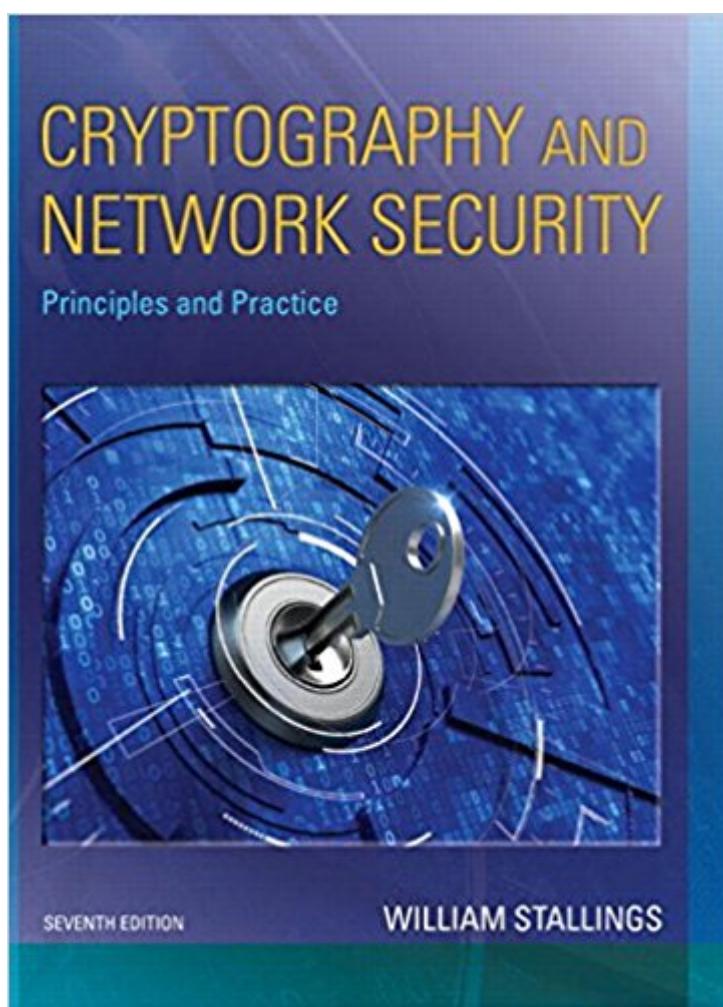


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# Cryptography And Network Security: Principles And Practice (7th Edition)



## Synopsis

The Principles and Practice of Cryptography and Network Security Stallingsâ€”  
Cryptography and Network Security, Seventh Edition, introduces the reader to the compelling and evolving field of cryptography and network security. In an age of viruses and hackers, electronic eavesdropping, and electronic fraud on a global scale, security is paramount. The purpose of this book is to provide a practical survey of both the principles and practice of cryptography and network security. In the first part of the book, the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology. The latter part of the book deals with the practice of network security: practical applications that have been implemented and are in use to provide network security. The Seventh Edition streamlines subject matter with new and updated material • including Sage, one of the most important features of the book. Sage is an open-source, multiplatform, freeware package that implements a very powerful, flexible, and easily learned mathematics and computer algebra system. It provides hands-on experience with cryptographic algorithms and supporting homework assignments. With Sage, the reader learns a powerful tool that can be used for virtually any mathematical application. The book also provides an unparalleled degree of support for the reader to ensure a successful learning experience.

## Book Information

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## Customer Reviews

Dr. William Stallings has authored 18 titles, and counting revised editions, over 40 books on

computer security, computer networking, and computer architecture. His writings have appeared in numerous publications, including the Proceedings of the IEEE, ACM Computing Reviews and Cryptologia. He has 13 times received the award for the best Computer Science textbook of the year from the Text and Academic Authors Association. In over 30 years in the field, he has been a technical contributor, technical manager, and an executive with several high-technology firms. He has designed and implemented both TCP/IP-based and OSI-based protocol suites on a variety of computers and operating systems, ranging from microcomputers to mainframes. As a consultant, he has advised government agencies, computer and software vendors, and major users on the design, selection, and use of networking software and products. He created and maintains the Computer Science Student Resource Site at ComputerScienceStudent.com. This site provides documents and links on a variety of subjects of general interest to computer science students (and professionals). He is a member of the editorial board of Cryptologia, a scholarly journal devoted to all aspects of cryptology. Dr. Stallings holds a PhD from MIT in computer science and a BS from Notre Dame in electrical engineering.

I had to read this for a class. Thankfully my class didn't get into the math. The bad part is that the math is everywhere, so you have to skip around. It would be better to have four parts per chapter. The reference/design part, the in-use part, the math part, and then the ways in which to attack the encryption. The author loves to create formulas. Somewhere in the book it says something like: The number of X is the average of A and B; thus we have  $X = A + B / 2$  (1.3). Thank you for telling me how to compute an average, because I didn't know the equation...But the problem is that the math then gets pretty intense, so unless you remember a lot of matrix math and binary/octal math, then you need to refer to the appendix. There is no "medium

Taking some entry level classes in Network Design for computers at a local technical college, this was the textbook selected, and available from the school website. But I always appreciate having the hard copy in my hand, that I can move quickly from one page to another distant or near page. The substance of the book fits the course fine. The explications are neat, concise, yet comprehensive. It feel that you can teach yourself by just reading it. Having access to a computer electronic lab and a live teacher, this textbook guarantees that you learn the subject well. The curve in my class is high.

Even if you buy it used you need to purchase the online code to get all the material.

This author is very technical and thorough. This book is in line with that but I found it to be easier to read than some of his other books. I used this book with the extra materials on the company's website. I also used the free CryptTool utility which can be downloaded from the Internet. I feel that I understand encryption in the context of network security much better now.

Great book. Fairly understandable even for a non-computer science major. I definitely feel that I would have gotten more out of the book if I had more experience working with system calls and C programming but this is not the book's fault. Some sections are more difficult to understand than others so I had to look up some material but again this is most likely due to my lack of experience with this type of programming rather than a problem with the book.

Enjoyed reading!!

Best book for learning operating systems.

Stallings is a pro. Needed it for an advanced course in OS. If you need it you should not try to go without the updated version of the book!

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