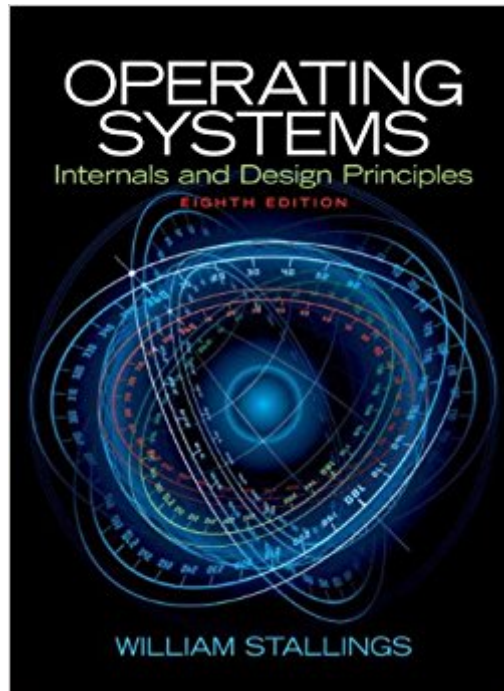




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# Operating Systems: Internals And Design Principles (8th Edition)



## Synopsis

Operating Systems: Internals and Design Principles is intended for use in a one- or two-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors. It also serves as a useful reference for programmers, systems engineers, network designers and others involved in the design of computer products, information system and computer system personnel. Operating Systems provides a comprehensive and unified introduction to operating systems topics. Stallings emphasizes both design issues and fundamental principles in contemporary systems and gives readers a solid understanding of the key structures and mechanisms of operating systems. He discusses design trade-offs and the practical decisions affecting design, performance and security. The book illustrates and reinforces design concepts and ties them to real-world design choices through the use of case studies in Linux, UNIX, Android, and Windows 8.

**Teaching and Learning Experience** This program presents a better teaching and learning experienceâ “for you and your students. It will help:

- Illustrate Concepts with Running Case Studies:** To illustrate the concepts and to tie them to real-world design choices that must be made, four operating systems serve as running examples.
- Easily Integrate Projects in your Course:** This book provides an unparalleled degree of support for including a projects component in the course.
- Keep Your Course Current with Updated Technical Content:** This edition covers the latest trends and developments in operating systems.
- Provide Extensive Support Material to Instructors and Students:** Student and instructor resources are available to expand on the topics presented in the text.

## Book Information

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## Customer Reviews

William Stallings has made a unique contribution to understanding the broad sweep of technical developments in computer networking and computer architecture. He has authored 17 titles, and counting revised editions, a total of 41 books on various aspects of these subjects. In over 20 years in the field, he has been a technical contributor, technical manager, and an executive with several high-technology firms. Currently he is an independent consultant whose clients have included computer and networking manufacturers and customers, software development firms, and leading-edge government research institutions. He has received the award for the best Computer Science textbook of the year  $\hat{\wedge}$ seven times from the Text and Academic Authors Association. Bill 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. As evidence of his commitment to providing a broad range of support to students, Bill created and maintains the Computer Science Student Resource Site at [WilliamStallings.com/StudentSupport.html](http://WilliamStallings.com/StudentSupport.html). 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. He is a frequent lecturer and author of numerous technical papers. His books include Data and Computer Communications, Ninth Edition (Prentice Hall, 2011), which has become the standard in the field. Dr. Stallings holds a PhD from M.I.T. in Computer Science and a B.S. 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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