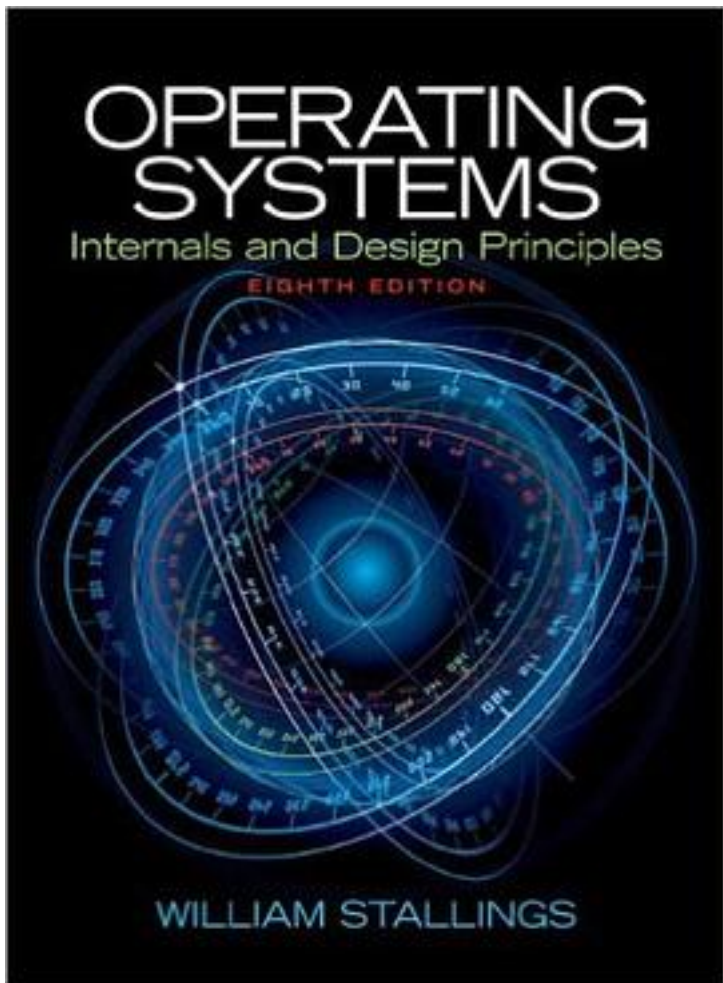


Operating Systems: Internals and Design Principles



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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.

作者介绍:

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 ;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. 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.

目录:

标签

操作系统

OS

CS

Programming

评论

可以作为主力书. 结合其他书.

这门课也马上就要结束了，其实很早之前就看完了，但自己读完的理解确实不到位，教授讲过之后会有豁然开朗的感觉。涉及了操作系统的一些基本原理，包括process, thread, mutual exclusion, deadlock, memory, scheduling, I/O, file等系统的目的实现方法。上课做的三个project也用到了教材里面的知识，实现的都是interprocess communication，分别是模拟CPU和memory之间，threads之间，client和server之间的communication。这本书看完之后算是对操作系统有了一些了解，但我认为这门课自学还是便难了，涉及到的概念太多，很容易迷失其中，概念弄清楚了，这本书也就读明白了。

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书评

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