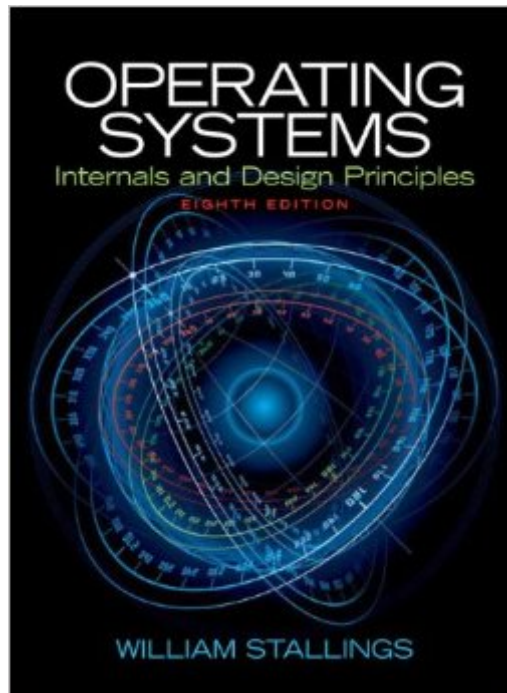


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Operating Systems: Internals And Design Principles (8th Edition)



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

Reading books for academic study means I go through a significant amount of literature each year. Each writer has their own style and each publisher has their own preferred method of book building. Pearson Education outshined themselves with *Operating Systems Internals and Design Principles*. The first thing you'll notice is the fine paper the book is printed on. Usually this quality of paper is very expensive textbooks or religious publications. The paper is light and delicate to touch yet durable and difficult to tear. Just touching each page felt like I was reading a museum quality manuscript. Next, the book is covered in a wealth of resources. When you open the front cover the first page is an access code for additional chapters, videos, animations and other premium content. Each chapter has dozens of outstanding reference books that provide the foundation for the author's thought process. All good books are based on solid research and this book is a perfect example of deep research already provided to the reader. The bibliography is worth the price of the book because it covers the evolution of not just operating systems but computing and design theories. William Stallings is not new to writing and his experience in creating highly useful textbooks comes through in every page. This book starts off like a history book, going into the genesis of certain operating systems. Windows, Unix, Linux and Android are covered in general detail to begin the lessons. These operating systems were chosen because each one is so different from the others that they are perfect examples of how operating systems can be implemented. The first chapter gives the reader an overview of what an OS is and how difficult building this software really is.

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