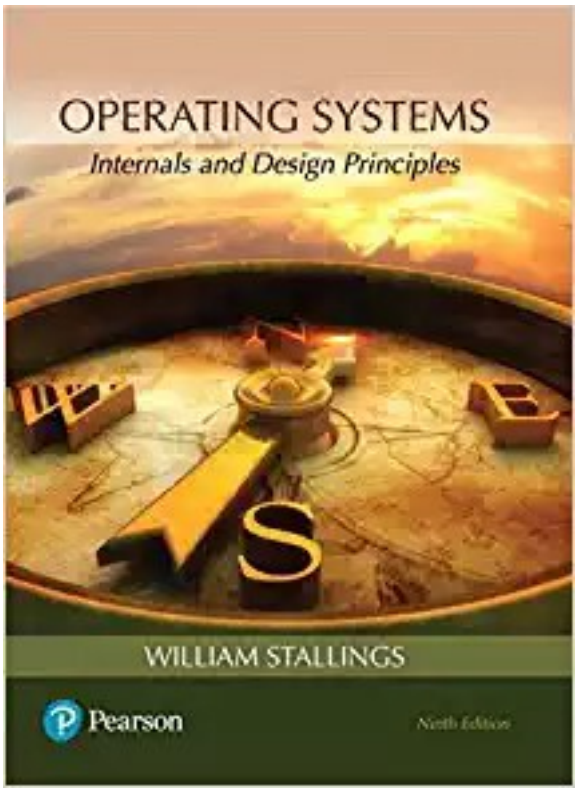
Operating Systems: Internals and Design Principles (9th Edition)



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For one- or two-semester undergraduate courses in operating systems for computer science, computer engineering, and electrical engineering majors

An introduction to operating systems with up-to-date and comprehensive coverage

Now in its 9th Edition, Operating Systems: Internals and Design Principles provides a

comprehensive, unified introduction to operating systems topics for readers studying computer science, computer engineering, and electrical engineering. Author William Stallings emphasizes both design issues and fundamental principles in contemporary systems, while providing readers with 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 text illustrates and reinforces design concepts, tying them to real-world design choices with case studies in Linux, UNIX, Android, and Windows 10.

With an unparalleled degree of support for project integration, plus comprehensive coverage of the latest trends and developments in operating systems, including cloud computing and the Internet of Things (IoT), the text provides everything readers need to keep pace with a complex and rapidly changing field. The 9th Edition has been extensively revised and contains new material, new projects, and updated chapters.

作者介绍:

From the Publisher

Offering a comprehensive and unified introduction to operating systems, this book provides students with a sound foundation in key mechanisms of operating systems as well as an insightful look at design issues highlighting the tradeoffs and decisions involved in OS design. Building on fundamental principles, the book presents recent developments such as threads, real-time systems, multiprocessor scheduling, process migrations and security. Throughout, Windows NT, UNIX, and IBM MVS are used as running illustrative examples of actual operating systems. And, the new edition now presents a comprehensive and extremely current introduction to distributed operating systems--reflecting current trends in the field and highlighting how distributed operating systems concepts build on concepts found in traditional operating systems.

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From the Back Cover

Key Benefit: Providing a comprehensive and unified introduction to operating systems, this book emphasizes the fundamentals of the key mechanisms of modern operating systems, and the types of design tradeoffs and decisions involved in operating system design. This second edition presents recent developments in operating system design, and uses three running examples of operating systems to illustrate the material: Windows NT, UNIX, and IBM MVS. Key Topics: Covers new areas of operating system design, including threads, real-time systems, multiprocessor scheduling, process migration, process communication, mutual exclusion, deadlock, distributed operating systems, and security. Market: For everyone who needs an introduction to operating systems.

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