Operating Systems: Principles and Design

Pabitra Pal Choudhury

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This well-organized and comprehensive book, written in an easy-to-understand language, provides a deep insight into the working of an operating system, which is essentially a concurrent program, and strikes a fine balance between theory and practice.

The text provides the program design illustration and guidance along with new concepts. It gives an in-depth analysis of the fundamental concepts of an OS as an interrupt driven program whose basic constituents are the processes giving rise to a concurrent program. Further, the book gives a comprehensive coverage of such topics as CPU scheduling, device scheduling, deadlocks, memory management, file system, and the considerations of the security of the whole system. The programs discussed in the text are in C language and have been successfully run and tested in the Linux operating system.

KEY FEATURES
• Devotes separate chapters to device management, file management, and low power system design.
• Discusses ReiserFs, a file system (considered to be an asset), which is given as an Appendix to Chapter 10.
• Includes a detailed discussion on how a programmer can guard against hacking Linux and its clones.

This student friendly book, with profuse use of illustrative programs, is intended as a text for undergraduate and postgraduate students pursuing courses in Computer Science and Engineering, Information Technology, Computer Applications (BCA, MCA), and Computer Science (B.Sc. and M.Sc.). Besides, students from other engineering streams who wish to keep themselves abreast of operating systems would also find the text immensely valuable.

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