



Modern Operating Systems, 3/E

By Andrew S.Tanenbaum

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The much anticipated revision of this best-seller incorporates the latest developments in operating systems technologies. This authoritative book covers both the principles and practice of modern operating systems, with an emphasis on linux, windows vista, and embedded, real-time, and multimedia systems. The author brings his clear and entertaining style to the "big picture" concepts every OS designer needs to master. Drawing on his long experience as designer or co-designer of three operating systems, he shares deep knowledge and practical detail. Among the many topics Tanenbaum covers in depth are: processes, threads, memory management, file systems, I/O, deadlocks, interface design, multimedia, performance trade-offs, and the newest trends in operating system design. Salient features up-to-date-minute coverage of Windows Vista and the newest Linux/Unix operating systems chapter-length case study on the Symbian operating system for mobile devices extensively updated and enhanced security coverage coverage of new research that is likely to shape tomorrow's operating systems updated and additional programming exercises added to every chapter on-line OS experiments using popular Windows and open source tools to table of contents preface 1. Introduction 2. Processes and threads 3. Memory management 4. File systems 5. Input/output 6. Deadlocks 7. Multimedia operating systems 8. Multiple processor systems 9. Security 10. Case study 1: Linux 11. Case study 2: Windows Vista 12. Case study 3: Symbian OS 13. Operating system design 14. Reading list and bibliography index

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