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Modern Operating Systems Third Edition by Andrew S Tanenbaum, Prentice Hall India 2008. This course covers the fundamental principles of operating systems: process synchronization. Modern Operating Systems, 2nd

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The Third Edition includes up-to-date materials on relevant operating systems such as Linux, Windows, and embedded real-time and multimedia systems. KEY TOPICS: Includes new and updated coverage of multimedia operating systems, multiprocessors, virtual machines, and antivirus software.

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Modern Operating Systems (2nd Edition) (February 28, 2001 ...
Modern Operating Systems (Paperback) Published December 2007 by Pearson Prentice Hall International 3rd Edition, Paperback, 1,104 pages

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Modern Operating Systems, Fourth Edition, is intended for introductory courses in Operating Systems in Computer Science, Computer Engineering, and Electrical Engineering programs. It also serves as a useful reference for OS professionals. The widely anticipated revision of this worldwide best-seller incorporates the latest developments in operating systems (OS) technologies. The Fourth Edition includes up-to-date materials on relevant OS. Tanenbaum also provides information on current research based on his experience as an operating systems researcher. Modern Operating Systems, Third Edition was the recipient of the 2010 McGuffey Longevity Award. The McGuffey Longevity Award recognizes textbooks whose excellence has been demonstrated over time. <http://taaonline.net/index.html>

Teaching and Learning Experience This program will provide a better teaching and learning experience – for you and your students. It will help:

- Provide Practical Detail on the Big Picture Concepts: A clear and entertaining writing style outlines the concepts every OS designer needs to master.
- Keep Your Course Current: This edition includes information on the latest OS technologies and developments.
- Enhance Learning with Student and Instructor Resources: Students will gain hands-on experience using the simulation exercises and lab experiments.

For Introductory Courses in Operating Systems in Computer Science, Computer Engineering, and Electrical Engineering programs. The widely anticipated revision of this worldwide best-seller incorporates the latest developments in operating systems (OS) technologies. The Third Edition includes up-to-date materials on relevant OS such as Linux, Windows, and embedded real-time and multimedia systems. Tanenbaum also provides information on current research based on his experience as an operating systems researcher.

The widely anticipated revision of this worldwide best seller incorporates the latest developments in operating systems technologies. Hundreds of pages of new material on a wealth of subjects have been added. This authoritative, example-based reference offers practical, hands-on information in constructing and understanding modern operating systems. Continued in this second edition are the "big picture" concepts, presented in the clear and entertaining style that only Andrew S. Tanenbaum can provide. Tanenbaum's long experience as the designer or co-designer of three operating systems brings a knowledge of the subject and wealth of practical detail that few other books can match.

FEATURES\ NEW--New chapters on computer security, multimedia operating systems, and multiple processor systems. **NEW--**Extensive coverage of Linux, UNIX(R), and Windows 2000(TM) as examples. **NEW--**Now includes coverage of graphical user interfaces, multiprocessor operating systems, trusted systems, viruses, network terminals, CD-ROM file systems, power management on laptops, RAID, soft timers, stable storage, fair-share scheduling, three-level scheduling, and new paging algorithms. **NEW--**Most chapters have a new section on current research on the chapter's topic. **NEW--**Focus on "single-processor" computer systems; a new book for a follow-up course on distributed systems is also available from Prentice Hall. **NEW--**Over 200 references to books and papers published since the first edition. **NEW--**The Web site for this book contains PowerPoint slides, simulators, figures in various formats, and other teaching aids.

To thoroughly understand what makes Linux tick and why it's so efficient, you need to delve deep into the heart of the operating system--into the Linux kernel itself. The kernel is Linux--in the case of the Linux operating system, it's the only bit of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time, and in what order. Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of Understanding the Linux Kernel takes you on a guided tour through the most significant data structures, many algorithms, and programming tricks used in the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside their machine. Relevant segments of code are dissected and discussed line by line. The

book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does things the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is improved, and whole new classes of hardware devices have been added. The authors explore each new feature in detail. Other topics in the book include: Memory management including file buffering, process swapping, and Direct memory Access (DMA) The Virtual Filesystem and the Second Extended Filesystem Process creation and scheduling Signals, interrupts, and the essential interfaces to device drivers Timing Synchronization in the kernel Interprocess Communication (IPC) Program execution Understanding the Linux Kernel, Second Edition will acquaint you with all the inner workings of Linux, but is more than just an academic exercise. You'll learn what conditions bring out Linux's best performance, and you'll see how it meets the challenge of providing good system response during process scheduling, file access, and memory management in a wide variety of environments. If knowledge is power, then this book will help you make the most of your Linux system.

This revised and updated Second Edition presents a practical introduction to operating systems and illustrates these principles through a hands-on approach using accompanying simulation models developed in Java and C++. This text is appropriate for upper-level undergraduate courses in computer science. Case studies throughout the text feature the implementation of Java and C++ simulation models, giving students a thorough look at both the theoretical and the practical concepts discussed in modern OS courses. This pedagogical approach is designed to present a clearer, more practical look at OS concepts, techniques, and methods without sacrificing the theoretical rigor that is necessary at this level. It is an ideal choice for those interested in gaining comprehensive, hands-on experience using the modern techniques and methods necessary for working with these complex systems. Every new printed copy is accompanied with a CD-ROM containing simulations (eBook version does not include CD-ROM). New material added to the Second Edition: - Chapter 11 (Security) has been revised to include the most up-to-date information - Chapter 12 (Firewalls and Network Security) has been updated to include material on middleware that allows applications on separate machines to communicate (e.g. RMI, COM+, and Object Broker) - Includes a new chapter dedicated to Virtual Machines - Provides introductions to various types of scams - Updated to include information on Windows 7 and Mac OS X throughout the text - Contains new material on basic hardware architecture that operating systems depend on - Includes new material on handling multi-core CPUs Instructor Resources: -Answers to the end of chapter questions -PowerPoint Lecture Outlines

This is a practical manual on operating systems, which describes a small UNIX-like operating system, demonstrating how it works and illustrating the principles underlying it. The relevant sections of the MINIX source code are described in detail, and the book has been revised to include updates in MINIX, which initially started as a v7 unix clone for a floppy-disk only 8088. It is now aimed at 386, 486 and pentium machines, and is based on the international posix standard instead of on v7. Versions of MINIX are now also available for the Macintosh and SPARC.

"This book is organized around three concepts fundamental to OS construction:

virtualization (of CPU and memory), concurrency (locks and condition variables), and persistence (disks, RAIDS, and file systems"--Back cover.

The third edition of Operating Systems has been entirely updated to reflect current core operating system concepts and design considerations. To complement the discussion of operating system concepts, the book features two in-depth case studies on Linux and Windows XP. The case studies follow the outline of the book, so readers working through the chapter material can refer to each case study to see how a particular topic is handled in either Linux or Windows XP. Using Java code to illustrate key points, Operating Systems introduces processes, concurrent programming, deadlock and indefinite postponement, mutual exclusion, physical and virtual memory, file systems, disk performance, distributed systems, security and more. New to this edition are a chapter on multithreading and extensive treatments of distributed computing, multiprocessing, performance, and computer security. An ideal up-to-date book for beginner operating systems readers.

The tenth edition of Operating System Concepts has been revised to keep it fresh and up-to-date with contemporary examples of how operating systems function, as well as enhanced interactive elements to improve learning and the student ' s experience with the material. It combines instruction on concepts with real-world applications so that students can understand the practical usage of the content. End-of-chapter problems, exercises, review questions, and programming exercises help to further reinforce important concepts. New interactive self-assessment problems are provided throughout the text to help students monitor their level of understanding and progress. A Linux virtual machine (including C and Java source code and development tools) allows students to complete programming exercises that help them engage further with the material. The Enhanced E-Text is also available bundled with an abridged print companion and can be ordered by contacting customer service here: ISBN: 9781119456339 Price: \$97.95 Canadian Price: \$111.50

Featuring an introduction to operating systems, this work reflects advances in OS design and implementation. Using MINIX, this book introduces various concepts needed to construct a working OS, such as system calls, processes, IPC, scheduling, I/O, deadlocks, memory management, threads, file systems, security, and more.

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