

**Unit 6****Operating System Concepts****Structure:**

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**6.1 Introduction**

As we discussed in the previous unit, Computer software has become a driving force. It is the engine that drives business decision making. It serves as the basis for modern scientific investigation and engineering problem solving. In this unit, we will study the operating system concepts like, functions of an Operating System, Development of Operating System, Early Systems, Simple Batch Systems, Multi Programmed Batch Systems, Time Sharing Systems, Distributed Systems, Real-time Operating System, Operating System Components, Operating System Services and Operating Systems for Different Computers.

**Objectives:**

After studying this unit, you should be able to:

- describe Operating System
- deliberate the various functions of an Operating System
- explain the evolution of Operating Systems

# Operating Systems Concepts Student Manual

**United States. Naval Education and  
Training Command**



## **Operating Systems Concepts Student Manual:**

Operating System Concepts Essentials Abraham Silberschatz, Peter B. Galvin, Greg Gagne, 2013-11-21 By staying current remaining relevant and adapting to emerging course needs *Operating System Concepts* by Abraham Silberschatz Peter Baer Galvin and Greg Gagne has defined the operating systems course through nine editions This second edition of the Essentials version is based on the recent ninth edition of the original text *Operating System Concepts Essentials* comprises a subset of chapters of the ninth edition for professors who want a shorter text and do not cover all the topics in the ninth edition The new second edition of Essentials will be available as an ebook at a very attractive price for students The ebook will have live links for the bibliography cross references between sections and chapters where appropriate and new chapter review questions A two color printed version is also available

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*Linux with Operating System Concepts* Richard Fox, 2021-12-28 A True Textbook for an Introductory Course System Administration Course or a Combination Course *Linux with Operating System Concepts Second Edition* merges conceptual operating system OS and Unix Linux topics into one cohesive textbook for undergraduate students The book can be used for a one or two semester course on Linux or Unix It is complete with review sections problems definitions concepts and relevant introductory material such as binary and Boolean logic OS kernels and the role of the CPU and memory hierarchy Details for Introductory and Advanced Users The book covers Linux from both the user and system administrator positions From a user perspective it emphasizes command line interaction From a system administrator perspective the text reinforces shell scripting with examples of administration scripts that support the automation of administrator tasks Thorough Coverage of Concepts and Linux Commands The author incorporates OS concepts not found in most Linux Unix textbooks including kernels file systems storage devices virtual memory and process management He also introduces computer science topics such as computer networks and TCP IP interpreters versus compilers file compression file system integrity through backups RAID and encryption technologies booting and the GNUs C compiler New in this Edition The book has been updated to systemd Linux and the newer services like Cockpit NetworkManager firewalld and journald This edition explores Linux beyond CentOS Red Hat by adding detail on Debian distributions Content across most topics has been updated and improved

*Introduction to Operating System Design and Implementation* Michael Kifer, Scott A. Smolka, 2007 Annotation This book is an introduction to the design and implementation of operating systems using OSP 2 the next generation of the highly popular OSP courseware

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**Software Student's Handbook** Thomas Ledger, 2013

**CompTIA A+ Complete Deluxe Study Guide** Quentin Docter, Emmett Dulaney, Toby Skandier, 2011-01-06 An arsenal of study aids for anyone preparing to take the CompTIA A certification exams Written by a team of industry experts this unparalleled study guide offers you a systematic approach to preparing for the CompTIA A certification and includes real world scenarios hands on exercises challenging chapter review questions plus a CD with Sybex s custom test engine to reinforce all of the concepts you learn This Deluxe Edition of the bestselling CompTIA A Study Guide features bonus practice exams flashcards and a bonus CD with more than an hour of instructional video of key hands on tasks Covering all exam objectives study guide focuses on the new best practices and places a strong emphasis on current software including Windows 7 Inside this guide you ll learn how to Identify and understand PC system components including motherboards processors memory and cooling systems Identify and understand storage devices power supplies display devices and adapters Install configure and troubleshoot desktops laptops and portable devices Install configure and troubleshoot printers Install and configure operating systems including Windows 2000 XP Vista and Windows 7 General troubleshooting theory and preventive maintenance Troubleshooting operating systems hardware printers and laptops Install configure and troubleshoot networks Set up and maintain network security Master essential operational procedures for PC technicians Communicate professionally with co workers and clients Updated Coverage Includes Windows 7 Topics Download Windows 7 supplements for your exam prep including additional review questions additional practice exam questions and an updated objectives map from sybex.com Featured on the CDs Over 600 Practice questions Eight practice tests 4 for the 220 701 and 4 for 220 702 Electronic flashcards Entire book as a searchable

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