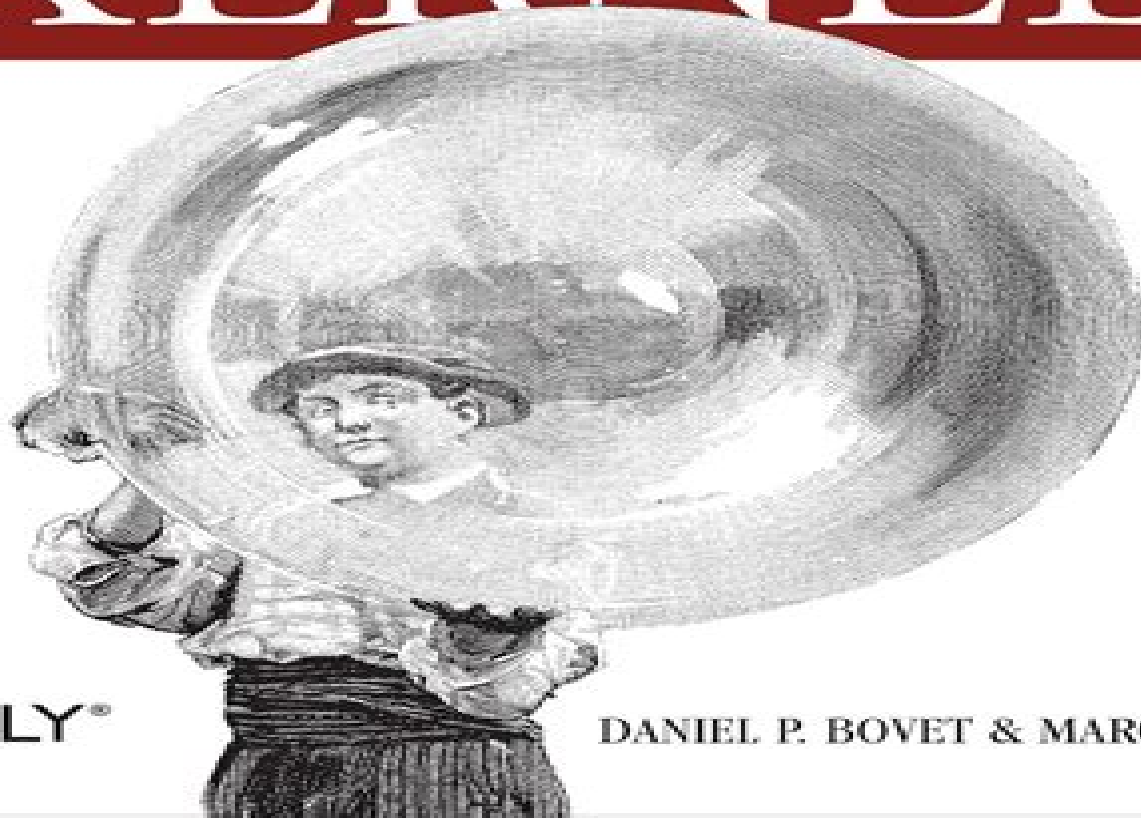


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Understanding The Linux Kernel 4th Edition

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Professional Linux Kernel Architecture Wolfgang Maurer, 2010-03-11 Find an introduction to the architecture concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture, a guide to the kernel sources and a large number of connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives, and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources.

Understanding the Linux Kernel Daniel Pierre Bovet, Marco Cesati, 2002 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

Learning Red Hat Enterprise Linux and Fedora Bill McCarty, 2004 Explains how to install and configure Linux how to run productivity tools how to burn CDs and synchronize a PalmPilot how to set up software how to configure a network and how to use the system administration tools

The Electrical Engineering Handbook - Six Volume Set Richard C. Dorf, 2018-12-14 In two editions spanning more than a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has grown into a set of six books carefully focused on specialized areas or fields of study Each one represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Combined they constitute the most comprehensive authoritative resource available Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Electronics Power Electronics Optoelectronics Microwaves Electromagnetics and Radar delves into the fields of electronics integrated circuits power electronics optoelectronics electromagnetics light waves and radar supplying all of the basic information required for a deep understanding of each area It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power electronics Sensors Nanoscience Biomedical Engineering and Instruments provides thorough coverage of sensors materials and nanoscience instruments and measurements and

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Exploring the JDS Linux Desktop Tom Adelstein, Sam Hiser, 2004 Accompanying disc contains a version of JDS Linux Desktop which can be run directly from the disc without installation

Linux Syed Mansoor Sarwar, Robert M Koretsky, 2018-10-03 Chosen by BookAuthority as one of BookAuthority s Best Linux Mint Books of All Time Linux The Textbook Second Edition provides comprehensive coverage of the contemporary use of the Linux operating system for every level of student or practitioner from beginners to advanced users The text clearly illustrates system specific commands and features using Debian family Debian Ubuntu and Linux Mint and RHEL family CentOS and stresses universal commands and features that are critical to all Linux distributions The second edition of the book includes extensive updates and new chapters on system administration for desktop stand alone PCs and server class computers API for system programming including thread programming with pthreads virtualization methodologies and an extensive tutorial on systemd service management Brand new online content on the CRC Press website includes an instructor s workbook test bank and In Chapter exercise solutions as well as full downloadable chapters on Python Version 3.5 programming ZFS TC shell programming advanced system programming and more An author hosted GitHub website also features updates further references and errata Features New or updated coverage of file system sorting regular expressions directory and file searching file compression and encryption shell scripting system programming client server based network programming thread

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