

Just Enough Unix 5th Edition

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Understanding the Linux Kernel Daniel Pierre Bovet 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)

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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.

*Advanced Programming in
the UNIX Environment* W.
Richard Stevens

2008-01-01 The revision
of the definitive guide
to Unix system
programming is now
available in a more
portable format.

*Essential System
Administration* Eileen

Frisch 2002-08-23
Essential System
Administration, 3rd
Edition is the
definitive guide for
Unix system
administration, covering
all the fundamental and
essential tasks required
to run such divergent
Unix systems as AIX,
FreeBSD, HP-UX, Linux,
Solaris, Tru64 and more.
Essential System
Administration provides
a clear, concise,
practical guide to the
real-world issues that
anyone responsible for a
Unix system faces
daily. The new edition of
this indispensable
reference has been fully
updated for all the
latest operating
systems. Even more
importantly, it has been
extensively revised and
expanded to consider the
current system
administrative topics
that administrators need
most. Essential System
Administration, 3rd

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Edition covers: DHCP, USB devices, the latest automation tools, SNMP and network management, LDAP, PAM, and recent security tools and techniques. Essential System Administration is comprehensive. But what has made this book the guide system administrators turn to over and over again is not just the sheer volume of valuable information it provides, but the clear, useful way the information is presented. It discusses the underlying higher-level concepts, but it also provides the details of the procedures needed to carry them out. It is not organized around the features of the Unix operating system, but around the various facets of a system administrator's job. It describes all the usual administrative tools that Unix provides, but

it also shows how to use them intelligently and efficiently. Whether you use a standalone Unix system, routinely provide administrative support for a larger shared system, or just want an understanding of basic administrative functions, Essential System Administration is for you. This comprehensive and invaluable book combines the author's years of practical experience with technical expertise to help you manage Unix systems as productively and painlessly as possible.

Paperbound Books in Print Fall 1995 Reed Reference Publishing 1995-10

Just Enough Unix Paul K. Andersen 2006 Just Enough UNIX provides a quick and gentle introduction to the UNIX operating system. The fifth edition of this highly successful text

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reflects changes and updates to the UNIX curriculum that have taken place since the publication of the fourth edition. The book is written in a clear, straightforward style that avoids unnecessary jargon. This short, yet comprehensive text covers the basics of UNIX. It can be used in both a undergraduate engineering course or to supplement other courses, where the student needs to learn UNIX for the first time. The book is enhanced by strong pedagogical tools that will be very useful to those in the classroom, as well as those engaged in self-study.

The UNIX-haters Handbook
Simson Garfinkel 1994

This book is for all people who are forced to use UNIX. It is a humorous book--pure entertainment--that maintains that UNIX is a

computer virus with a user interface. It features letters from the thousands posted on the Internet's "UNIX-Haters" mailing list. It is not a computer handbook, tutorial, or reference. It is a self-help book that will let readers know they are not alone.

The Art of UNIX

Programming Eric S.

Raymond 2003-09-23

The Art of UNIX Programming poses the belief that understanding the unwritten UNIX engineering tradition and mastering its design patterns will help programmers of all stripes to become better programmers. This book attempts to capture the engineering wisdom and design philosophy of the UNIX, Linux, and Open Source software development community as it has evolved over the past three decades, and as it is applied today

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by the most experienced programmers. Eric Raymond offers the next generation of "hackers" the unique opportunity to learn the connection between UNIX philosophy and practice through careful case studies of the very best UNIX/Linux programs.

Security in Computing

Charles P. Pfleeger 2009
C++ [] James P. Cohoon
2002 [] C++ []
[], []
[]

Running Linux Matthias Kalle Dalheimer
2005-12-22 You may be contemplating your first Linux installation. Or you may have been using Linux for years and need to know more about adding a network printer or setting up an FTP server. *Running Linux*, now in its fifth edition, is the book you'll want on hand in either case. Widely recognized in the Linux community as the

ultimate getting-started and problem-solving book, it answers the questions and tackles the configuration issues that frequently plague users, but are seldom addressed in other books. This fifth edition of *Running Linux* is greatly expanded, reflecting the maturity of the operating system and the teeming wealth of software available for it. Hot consumer topics such as audio and video playback applications, groupware functionality, and spam filtering are covered, along with the basics in configuration and management that always have made the book popular. *Running Linux* covers basic communications such as mail, web surfing, and instant messaging, but also delves into the subtleties of network configuration--including dial-up, ADSL, and cable

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modems--in case you need to set up your network manually. The book can make you proficient on office suites and personal productivity applications--and also tells you what programming tools are available if you're interested in contributing to these applications. Other new topics in the fifth edition include encrypted email and filesystems, advanced shell techniques, and remote login applications. Classic discussions on booting, package management, kernel recompilation, and X configuration have also been updated. The authors of *Running Linux* have anticipated problem areas, selected stable and popular solutions, and provided clear instructions to ensure that you'll have a satisfying experience using Linux. The

discussion is direct and complete enough to guide novice users, while still providing the additional information experienced users will need to progress in their mastery of Linux. Whether you're using Linux on a home workstation or maintaining a network server, *Running Linux* will provide expert advice just when you need it.

C Primer Plus Stephen Prata 2002 The new classic! *C Primer Plus*, now in its 5th edition, has been revised to include over 20 new programming exercises, newly improved examples and the new ANSI/ISO standard, C99. Task-oriented examples will teach you the fundamentals of C programming. From extended integer types and compound literals to Boolean support and variable-length arrays,

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you will learn to create practical and real-world applications with C programming. Review questions and programming exercises at the end of each chapter will reinforce what you have learned. This friendly and easy-to-use self-study guide will help you understand the fundamentals of this core programming language.

Learning Python Mark Lutz 2013-06-12 Get a comprehensive, in-depth introduction to the core Python language with this hands-on book. Based on author Mark Lutz's popular training course, this updated fifth edition will help you quickly write efficient, high-quality code with Python. It's an ideal way to begin, whether you're new to programming or a professional developer versed in other languages. Complete with

quizzes, exercises, and helpful illustrations, this easy-to-follow, self-paced tutorial gets you started with both Python 2.7 and 3.3—the latest releases in the 3.X and 2.X lines—plus all other releases in common use today. You'll also learn some advanced language features that recently have become more common in Python code. Explore Python's major built-in object types such as numbers, lists, and dictionaries. Create and process objects with Python statements, and learn Python's general syntax model. Use functions to avoid code redundancy and package code for reuse. Organize statements, functions, and other tools into larger components with modules. Dive into classes: Python's object-oriented programming tool for structuring code. Write

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large programs with Python's exception-handling model and development tools Learn advanced Python tools, including decorators, descriptors, metaclasses, and Unicode processing

Computer Networks Andrew S. Tanenbaum 2013-07-23
Appropriate for Computer Networking or Introduction to Networking courses at both the undergraduate and graduate level in Computer Science, Electrical Engineering, CIS, MIS, and Business Departments. Tanenbaum takes a structured approach to explaining how networks work from the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth

application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media.

Beginning JavaScript

Paul Wilton 2004-07-12

What is this book about? JavaScript is the language of the Web. Used for programming all major browsers, JavaScript gives you the ability to enhance your web site by creating interactive, dynamic, and personalized pages. Our focus in this book is on client-side scripting, but JavaScript is also hugely popular as a scripting language in server-side environments, a subject that we cover in later chapters. What does this book cover? Beginning

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JavaScript assumes no prior knowledge of programming languages, but will teach you all the fundamental concepts that you need as you progress. After covering the core JavaScript language, you'll move on to learn about more advanced techniques, including Dynamic HTML, using cookies, debugging techniques, and server-side scripting with ASP. By the end of this book, you will have mastered the art of using JavaScript to create dynamic and professional-looking web pages. Here are a few of the things you'll learn in this book:

Fundamental programming concepts
Comprehensive practical tutorial in JavaScript
Cross-browser scripting, including Netscape 6
Cookie creation and use
Plugins and ActiveX controls
Dynamic HTML Scripting
the W3C DOM Server-side

JavaScript with ASP
Who is this book for? This book is for anyone who wants to learn JavaScript. You will need a very basic knowledge of HTML, but no prior programming experience is necessary. Whether you want to pick up some programming skills, or want to find out how to transfer your existing programming knowledge to the Web, then this book is for you. All you need is a text editor (like Notepad) and a browser, and you're ready to go!

UNIX and Perl to the Rescue! Keith Bradnam
2012-07-19 An accessible guide to learning the key features of Unix and Perl, written with the non-programmer in mind.

Just Enough UNIX Paul Andersen 2006
Just Enough UNIX provides a quick and gentle introduction to the UNIX operating system. The fifth edition of this

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highly successful text reflects changes and updates to the UNIX curriculum that have taken place since the publication of the fourth edition. The book is written in a clear, straightforward style that avoids unnecessary jargon. This short, yet comprehensive text covers the basics of UNIX. It can be used in both a freshman engineering course or to supplement other courses where the student needs to learn UNIX for the first time. The book is enhanced by strong pedagogical tools that will be very useful to those in the classroom, as well as those engaged in self-study.

Learning the bash Shell

Cameron Newham

2005-03-29 O'Reilly's bestselling book on Linux's bash shell is at it again. Now that Linux is an established player both as a server and on

the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from

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the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process

handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security

Unix Power Tools Shelley

Powers 2003 By its very nature, Unix is a "power tools" environment. Even beginning Unix users quickly grasp that immense power exists in shell programming, aliases and history mechanisms, and various editing tools.

Nonetheless, few users ever really master the power available to them with Unix. There is just too much to learn! Unix Power Tools, Third Edition, literally contains thousands of tips, scripts, and techniques that make using Unix easier, more effective, and even more

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fun. This book is organized into hundreds of short articles with plenty of references to other sections that keep you flipping from new article to new article. You'll find the book hard to put down as you uncover one interesting tip after another. With the growing popularity of Linux and the advent of Mac OS X, Unix has metamorphosed into something new and exciting. With Unix no longer perceived as a difficult operating system, more and more users are discovering its advantages for the first time. The latest edition of this best-selling favorite is loaded with advice about almost every aspect of Unix, covering all the new technologies that users need to know. In addition to vital information on Linux, Mac OS X, and BSD, Unix Power Tools, Third

Edition, now offers more coverage of bcash, zsh, and new shells, along with discussions about modern utilities and applications. Several sections focus on security and Internet access, and there is a new chapter on access to Unix from Windows, addressing the heterogeneous nature of systems today. You'll also find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. The book's accompanying web site provides some of the best software available to Unix users, which you can download and add to your own set of power tools. Whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the gold mine of information in this new edition of Unix Power Tools to add to your

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store of knowledge. Want to try something new? Check this book first, and you're sure to find a tip or trick that will prevent you from learning things the hard way.

UNIX Unleashed Robin Burk 1997 "UNIX Unleashed, 2nd Ed". takes an in-depth look at UNIX and its features, commands, and utilities. Written by UNIX experts in the UNIX and open systems fields, this book is the all-purpose, one-stop UNIX guide that takes the reader from start to finish. The companion CD contains GNU Emacs, Perl BASH, UUCP, TeX utilities, GNU C++ Compiler, and shell scripts from the book, as well as other programs and utilities.

Bash Cookbook Carl Albing 2007-05-24 The key to mastering any Unix system, especially Linux and Mac OS X, is a

thorough knowledge of shell scripting.

Scripting is a way to harness and customize the power of any Unix system, and it's an essential skill for any Unix users, including system administrators and professional OS X developers. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. bash Cookbook teaches shell scripting the way Unix masters practice the craft. It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell - the bash shell - and cygwin or other popular Unix emulation packages. Packed full of useful scripts, along with examples that explain how to create better scripts, this new cookbook gives

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professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems -- rather than have their systems manage them.

The Design of the UNIX Operating System Maurice J. Bach 1986 This book describes the internal algorithms and the structures that form the basis of the UNIX operating system and their relationship to the programmer interface. The system description is based on UNIX System V Release 2 supported by AT&T, with some features from Release 3.

Operating Systems and Middleware Max Hailperin 2007 By using this innovative text, students will obtain an understanding of how contemporary operating systems and middleware work, and why they work that way.

Computer Networks

Tanenbaum 1999 On computer networks
Modern UNIX Alan Southerton 1993 An up-to-date introduction to the UNIX operating system for people experienced with mainframe or PC operating systems. Written by a senior editor at UNIXWORLD magazine, it is based on System V Release 3.2 but uses a generic approach to commands and utilities which makes it universally applicable to other UNIX versions including Berkeley, SUN, SCO, and AIX.

Guide to UNIX Using Linux Michael Palmer 2007-08-16 Written with a clear, straightforward writing style and packed with step-by-step projects for direct, hands-on learning, *Guide to UNIX Using Linux*, 4E is the perfect resource for learning UNIX and Linux from the ground

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up. Through the use of practical examples, end-of-chapter reviews, and interactive exercises, novice users are transformed into confident UNIX/Linux users who can employ utilities, master files, manage and query data, create scripts, access a network or the Internet, and navigate popular user interfaces and software. The updated 4th edition incorporates coverage of the latest versions of UNIX and Linux, including new versions of Red Hat, Fedora, SUSE, and Ubuntu Linux. A new chapter has also been added to cover basic networking utilities, and several other chapters have been expanded to include additional information on the KDE and GNOME desktops, as well as coverage of the popular OpenOffice.org office suite. With a strong focus on universal UNIX

and Linux commands that are transferable to all versions of Linux, this book is a must-have for anyone seeking to develop their knowledge of these systems.

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UNIX for Programmers and Users Graham Glass

2011-11-21 This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For an introductory course on UNIX. UNIX for Programmers and Users, Third Edition follows in the tradition of previous editions to provide students with complete, up-to-date coverage of UNIX. In this new edition they

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will find information on basic concepts, popular utilities, shells, networking, systems programming, internals, system administration, and much more.

UNIX Systems Programming

Kay A. Robbins 2003

bull; Learn UNIX essentials with a concentration on communication, concurrency, and multithreading

techniques bull; Full of ideas on how to design and implement good software along with unique projects throughout bull;

Excellent companion to Stevens' Advanced UNIX System Programming

Learning the Unix

Operating System

Jerry Peek 2002

A handy book for someone just starting with Unix or Linux, and an ideal primer for Mac and PC users of the Internet who need to know a little about Unix on the

systems they visit. The most effective introduction to Unix in print, covering Internet usage for email, file transfers, web browsing, and many major and minor updates to help the reader navigate the ever-expanding capabilities of the operating system.

Linux Administration Handbook

Evi Nemeth

2006-10-30 "As this book shows, Linux systems are just as functional, secure, and reliable as their proprietary counterparts. Thanks to the ongoing efforts of thousands of Linux developers, Linux is more ready than ever for deployment at the frontlines of the real world. The authors of this book know that terrain well, and I am happy to leave you in their most capable hands." –Linus Torvalds "The most successful sysadmin book of all

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time—because it works!”
—Rik Farrow, editor of
;login: “This book
clearly explains current
technology with the
perspective of decades
of experience in large-
scale system
administration. Unique
and highly recommended.”
—Jonathan Corbet,
cofounder, LWN.net
“Nemeth et al. is the
overall winner for Linux
administration: it’s
intelligent, full of
insights, and looks at
the implementation of
concepts.” —Peter Salus,
editorial director,
Matrix.net Since 2001,
Linux Administration
Handbook has been the
definitive resource for
every Linux® system
administrator who must
efficiently solve
technical problems and
maximize the reliability
and performance of a
production environment.
Now, the authors have
systematically updated
this classic guide to

address today’s most
important Linux
distributions and most
powerful new
administrative tools.
The authors spell out
detailed best practices
for every facet of
system administration,
including storage
management, network
design and
administration, web
hosting, software
configuration
management, performance
analysis, Windows
interoperability, and
much more. Sysadmins
will especially
appreciate the thorough
and up-to-date
discussions of such
difficult topics such as
DNS, LDAP, security, and
the management of IT
service organizations.
Linux® Administration
Handbook, Second
Edition, reflects the
current versions of
these leading
distributions: Red Hat®
Enterprise Linux®

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Fedora™ Core SUSE®
Linux Enterprise Debian®
GNU/Linux Ubuntu® Linux
Sharing their war
stories and hard-won
insights, the authors
capture the behavior of
Linux systems in the
real world, not just in
ideal environments. They
explain complex tasks in
detail and illustrate
these tasks with
examples drawn from
their extensive hands-on
experience.

UNIX For Dummies John R.
Levine 2011-02-23 UNIX
For Dummies has been the
standard for beginning
UNIX references for
nearly ten years, and
this latest edition
continues that tradition
of success This
unparalleled resource is
updated to cover the
latest applications of
UNIX technology,
including Linux and Mac
desktops as well as how
UNIX works with
Microsoft server
software Thorough

coverage of how to
handle UNIX
installation, file
management, software,
utilities, networks,
Internet access, and
other basic tasks Aimed
at the first-time UNIX
desktop user growing
accustomed to the ins
and outs of the OS, as
well as the beginning
administrator who needs
to get a handle on UNIX
networking basics
Written by John Levine
and Margaret Levine
Young, longtime UNIX
experts and highly
experienced For Dummies
authors

**UNIX and Linux System
Administration Handbook**
Evi Nemeth 2017-09-14
“As an author, editor,
and publisher, I never
paid much attention to
the competition—except
in a few cases. This is
one of those cases. The
UNIX System
Administration Handbook
is one of the few books
we ever measured

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ourselves against.” –Tim O’Reilly, founder of O’Reilly Media “This edition is for those whose systems live in the cloud or in virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers, and all the other worker bees who inhabit the modern hive.” –Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security “This book is fun and functional as a desktop reference. If you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems’ history but doesn’t blivate. It’s just straight-

forward information delivered in a colorful and memorable fashion.” –Jason A. Nunnelley UNIX® and Linux® System Administration Handbook, Fifth Edition, is today’s definitive guide to installing, configuring, and maintaining any UNIX or Linux system, including systems that supply core Internet and cloud infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration, security, web hosting, automation, configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The

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authors—world-class, hands-on technologists—offer indispensable new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this conversational, well-written guide will improve your efficiency and help solve your knottiest problems.

Operating Systems
William Stallings 2009

For a one-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors. Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association (TAA)!

Operating Systems: Internals and Design Principles is a comprehensive and unified introduction to operating systems. By using several innovative tools, Stallings makes it possible to understand critical core concepts that can be fundamentally challenging. The new edition includes the implementation of web based animations to aid visual learners. At key points in the book, students are directed to view an animation and then are provided with assignments to alter the animation input and analyze the results. The concepts are then enhanced and supported by end-of-chapter case studies of UNIX, Linux and Windows Vista. These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design

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tradeoffs and decisions involved in OS design. Because they are embedded into the text as end of chapter material, students are able to apply them right at the point of discussion. This approach is equally useful as a basic reference and as an up-to-date survey of the state of the art.

Beginning Unix Paul Love
2015-03-23 Covering all aspects of the Unix operating system and assuming no prior knowledge of Unix, this book begins with the fundamentals and works from the ground up to some of the more advanced programming techniques. The authors provide a wealth of real-world experience with the Unix operating system, delivering actual examples while showing some of the common misconceptions and errors that new

users make. Special emphasis is placed on the Apple Mac OS X environment as well as Linux, Solaris, and migrating from Windows to Unix. A unique conversion section of the book details specific advice and instructions for transitioning Mac OS X, Windows, and Linux users.

Learn Python 3 the Hard Way Zed A. Shaw
2017-06-26 You Will Learn Python 3! Zed Shaw has perfected the world's best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In *Learn Python 3 the Hard Way*, you'll learn Python by working through 52 brilliantly crafted exercises. Read them.

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Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you'll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he's doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects Python packaging Automated testing Basic game development Basic

web development It'll be hard at first. But soon, you'll just get it—and that will feel great! This course will reward you for every minute you put into it. Soon, you'll know one of the world's most powerful, popular programming languages. You'll be a Python programmer. This Book Is Perfect For Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven't written code in years Seasoned professionals looking for a fast, simple, crash course in Python 3 **Computer Networks** Larry L. Peterson 2011-03-02 Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol

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design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention.

Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to

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understand the workings of network protocols and the big picture of networking. Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention Free downloadable network simulation software and lab experiments manual available

UNIX: The Complete Reference, Second Edition Kenneth Rosen
2006-12-19 The Definitive UNIX Resource--Fully Updated Get cutting-edge coverage of the newest releases of UNIX--including Solaris 10, all Linux distributions, HP-UX, AIX, and FreeBSD-

-from this thoroughly revised, one-stop resource for users at all experience levels. Written by UNIX experts with many years of experience starting with Bell Laboratories, UNIX: The Complete Reference, Second Edition provides step-by-step instructions on how to use UNIX and take advantage of its powerful tools and utilities. Get up-and-running on UNIX quickly, use the command shell and desktop, and access the Internet and e-mail. You'll also learn to administer systems and networks, develop applications, and secure your UNIX environment. Up-to-date chapters on UNIX desktops, Samba, Python, Java Apache, and UNIX Web development are included. Install, configure, and maintain UNIX on your PC or workstation Work with files, directories,

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commands, and the UNIX shell
Create and modify text files using powerful text editors
Use UNIX desktops, including GNOME, CDE, and KDE, as an end user or system administrator
Use and manage e-mail, TCP/IP networking, and Internet services
Protect and maintain the security of your UNIX system and network
Share devices, printers, and files between Windows and UNIX systems
Use powerful UNIX tools, including awk, sed, and grep
Develop your own shell, Python, and Perl scripts, and Java, C, and C++ programs under UNIX
Set up Apache Web servers and develop browser-independent Web sites and applications

A Primer on Scientific Programming with Python
Hans Petter Langtangen
2016-07-28
The book serves as a first introduction to computer programming of

scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming,

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mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The

Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CiSE Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, Computing Reviews, March 2015

A Concise Introduction to Software Engineering

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Pankaj Jalote 2008-10-17
An introductory course on Software Engineering remains one of the hardest subjects to teach largely because of the wide range of topics the area encompasses. I have believed for some time that we often tend to teach too many concepts and topics in an introductory course resulting in shallow knowledge and little insight on application of these concepts. And Software Engineering is naturally about application of concepts to efficiently engineer good software solutions. Goals I believe that an introductory course on Software Engineering should focus on imparting to students the knowledge and skills that are needed to successfully execute a commercial project of a few person-months effort while employing proper practices and

techniques. It is worth pointing out that a vast majority of the projects executed in the industry today fall in this scope—executed by a small team over a few months. I also believe that by carefully selecting the concepts and topics, we can, in the course of a semester, achieve this. This is the motivation of this book. The goal of this book is to introduce to the students a limited number of concepts and practices which will achieve the following two objectives: – Teach the student the skills needed to execute a smallish commercial project. Practical Computing for Biologists Steven Harold David Haddock 2011 To help with the increasingly large data sets that many scientists deal with, this book illustrates

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how to use many freely available computing tools to work more powerfully and effectively. The book was born out of the authors' experiences developing tools for their research and to fix other biologist's computational problems.

Guide to Operating Systems Greg Tomsho
2020-07-07 Master the fundamental concepts of computer operating systems with Tomsho's **GUIDE TO OPERATING SYSTEMS**, 6th Edition. An excellent resource for training across different operating systems, this practical text equips you with key theory and technical information as you work with today's most popular operating systems, including Windows, macOS and Linux

platforms. You will learn how general operating systems are organized and function as well as gain hands-on experience with OS installation, upgrading and configuration. Processors, file systems, networking, virtualization, security, device management, storage, OS maintenance and troubleshooting are explored in detail. Content also covers Windows 10 and earlier Windows client OSs, Windows Server 2019 and earlier Windows server OSs, Fedora Linux, and macOS Mojave and earlier. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.