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Python is an ideal
language for solving

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problems, especially in Linux and Unix networks. With this pragmatic book, administrators can review various tasks that often occur in the management of these systems, and learn

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how Python can provide a more efficient and less painful way to handle them. Each chapter in Python for Unix and Linux System Administration presents a particular

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administrative issue, such as concurrency or data backup, and presents Python solutions through hands-on examples. Once you finish this book, you'll be able to develop

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your own set of command-line utilities with Python to tackle a wide range of problems. Discover how this language can help you: Read text files and extract information Run

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tasks concurrently using the threading and forking options Get information from one process to another using network facilities Create clickable GUIs to handle

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large and complex utilities Monitor large clusters of machines by interacting with SNMP programmatically Master the IPython Interactive Python shell to replace or

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augment Bash, Korn, or Z-Shell Integrate Cloud Computing into your infrastructure, and learn to write a Google App Engine Application Solve unique data backup

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challenges with customized scripts Interact with MySQL, SQLite, Oracle, Postgres, Django ORM, and SQLAlchemy With this book, you'll learn how to package and deploy your

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Python applications and libraries, and write code that runs equally well on multiple Unix platforms. You'll also learn about several Python-related technologies that will

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make your life much easier.

Shell Programming in Unix, Linux and OS X is a thoroughly updated revision of Kochan and Wood's classic Unix Shell

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Following the methodology of the original text, the book focuses on the POSIX standard shell, and teaches you how to develop programs in this useful

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programming environment, taking full advantage of the underlying power of Unix and Unix-like operating systems. After a quick review of Unix utilities, the book's

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authors take you step-by-step through the process of building shell scripts, debugging them, and understanding how they work within the shell's environment. All major

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features of the shell are covered, and the large number of practical examples make it easy for you to build shell scripts for your particular applications. The book

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also describes the major features of the Korn and Bash shells. Learn how to... Take advantage of the many utilities provided in the Unix system Write powerful shell scripts Use the

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shell's built-in decision-making and looping constructs Use the shell's powerful quoting mechanisms Make the most of the shell's built-in history and command

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editing capabilities Use regular expressions with Unix commands Take advantage of the special features of the Korn and Bash shells Identify the major differences between

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versions of the shell
language Customize the way
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to you Set up your shell
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A Shell Summary B For More Information

Well suited to medium-scale general purpose computing, the Unix time sharing operating system is deservedly popular with

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academic institutions, research laboratories, and commercial establishments alike. Its user community, until recently a brotherhood of experienced computer professionals,

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it now attracting many people concerned with computer applications rather than the computer systems themselves. This book is intended for that new audience, people who

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have never encountered the Unix system before but who do have some acquaintance with computing. While helping beginning users get started is the primary aim of this book, it is

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also intended to serve as a handy reference subsequently. However, it is not designed to replace the definitive Unix system documentation. Unix operating systems now

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installed in computing centers, offices, and personal computers come in three related but distinct breeds: Seventh Edition Unix, Berkeley 4.2 BSD, and System V. These differ

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from each other in details, even though their family resemblance is strong. This book emphasizes System V, while paying heed to its two popular cousins. It also

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includes a few facilities in wide use, but not included in the normal system releases.

Individual details, of course, must be found in the manuals supplied with

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the fundamentals and advanced topics necessary for a comprehensive understanding of shell scripting in Linux. The book is filled with real-world examples and usable

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scripts, helping readers navigate the challenging Linux environment with ease and convenience. The book is perfect for anyone who uses Linux at home or in the office and will

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Learning the Korn Shell

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Bash, and more

Shell scripting skills never go out
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the real potential of Unix. Shell scripting is essential for Unix users and system administrators-a way to quickly harness and customize the full power of any Unix system. With shell scripts, you can combine the fundamental

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to help you reliably navigate these tricky waters. Writing shell scripts requires more than just a knowledge of the shell language, it also requires familiarity with the individual Unix programs: why each one is there, how to use them

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by themselves, and in combination with the other programs. The authors are intimately familiar with the tips and tricks that can be used to create excellent scripts, as well as the traps that can make your best effort a bad shell script.

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portably to get the best out of any individual system is an important skill for anyone operating and maintaining Unix or Linux systems. Classic Shell Scripting gives you everything you need to master these essential skills.

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book discusses features that made Unix the most suitable operating system of its time. An overview of file management in Unix and commonly used Unix commands is then provided. Further, it delves into the detailed description of file

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system and compression techniques, processes and signals, vi editor, system calls, and awk scripting. Detailed description about different types of editors and shell programming (including Bourne, C, and interactive Korn

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shell) has also been provided. Chapters dedicated to debugging and system development, language development, text formatting tools, interprocess communication, and system administration are covered in the

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later part of the book. To aid students, the book provides numerous examples and complete program scripts that will help in grasping the key concepts effectively. Web Resources: For StudentsDT Chapter-wise

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executable and complete shell scripts and codes given in the bookDT Mail Organizer - project that sends mail to a desired recipient on a given date.DT Inventory Management System - project that explains maintenance

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introduction to the modern, twenty-first-century UNIX operating system. The book deploys PC-BSD and Solaris, representative systems of the major branches of the UNIX family, to illustrate the key concepts. It covers many

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topics not covered in older, more traditional textbook approaches, such as Python, UNIX System Programming from basics to socket-based network programming using the client-server paradigm, the Zettabyte

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File System (ZFS), and the highly developed X Windows-based KDE and Gnome GUI desktop environments. The third edition has been fully updated and expanded, with extensive revisions throughout. It features a new

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tutorial chapter on the Python programming language and its use in UNIX, as well as a complete tutorial on the git command with Github. It includes four new chapters on UNIX system programming and the UNIX API,

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which describe the use of the UNIX system call interface for file processing, process management, signal handling, interprocess communication (using pipes, FIFOs, and sockets), extensive coverage of internetworking with

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UNIX TCP/IP using the client-server software, and considerations for the design and implementation of production-quality client-server software using iterative and concurrent servers. It also includes new chapters on UNIX system

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administration, ZFS, and container virtualization methodologies using iocage, Solaris Jails, and VirtualBox. Utilizing the authors' almost 65 years of practical teaching experience at the college level, this textbook presents well-

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thought-out sequencing of old and new topics, well-developed and timely lessons, a Github site containing all of the code in the book plus exercise solutions, and homework exercises/problems synchronized with the didactic

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sequencing of chapters in the book. With the exception of four chapters on system programming, the book can be used very successfully by a complete novice, as well as by an experienced UNIX system user, in both an informal

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and formal learning environment. The book may be used in several computer science and information technology courses, including UNIX for beginners and advanced users, shell and Python scripting, UNIX system programming, UNIX

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network programming, and UNIX system administration. It may also be used as a companion to the undergraduate and graduate level courses on operating system concepts and principles.

A guide to Linux covers such

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topics as the command line utilities, the filesystem, the Shells, the Editors, and programming tools.

Software -- Programming Languages.

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tutorial aimed at helping Unix and Linux users get optimal performance out of their operating out of their operating system. It shows them how to take control of their systems and work efficiently by harnessing the power of the

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shell to solve common problems. The reader learns everything he or she needs to know to customize the way a Unix system responds. The vast majority of Unix users utilize the Korn shell or some variant of the Bourne shell, such

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as bash. Three are covered in the third edition of Unix Shell Programming. It begins with a generalized tutorial of Unix and tools and then moves into detailed coverage of shell programming. Topics covered include: regular

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expressions, the kernel and the utilities, command files, parameters, manipulating text filters, understanding and debugging shell scripts, creating and utilizing variables, tools, processes, and customizing the

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shell.

The Linux Command Line

The Art of UNIX Programming

The AWK Programming Language

UNIX

Beginning Shell Scripting

Portable shell scripting is

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*the future of modern Linux,
OS X, and Unix command-line
access. Beginning Portable
Shell Scripting: From Novice
to Professional teaches
shell scripting by using the
common core of most shells
and expands those principles*

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to all of scripting. You will learn about portable scripting and how to use the same syntax and design principles for all shells. You'll discover about the interaction between shells and other scripting

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languages like Ruby and Python, and everything you learn will be shown in context for Linux, OS X, bash, and AppleScript. What you'll learn This book will prime you on not just shell scripting, but also the

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*modern context of portable
shell scripting. You will
learn The core Linux/OS X
shell constructs from a
portability point of view
How to write scripts that
write other scripts, and how
to write macros and debug*

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*them How to write and design
shell script portably from
the ground up How to use
programmable utilities and
their inherent portability
to your advantage, while
pinpointing potential traps
Pulling everything together,*

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how to engineer scripts that play well with Python and Ruby, and even run on embedded systems Who this book is for This book is for system administrators, programmers, and testers working across Linux, OS X,

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and the Unix command line.

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Introduction to Shell

Scripting Patterns and

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*Execution Shell Language
Portability Utility
Portability Bringing It All
Together Shell Script Design
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*Michael guides you through
every detail of writing
shell scripts to automate
specific tasks. Each chapter
begins with a typical,*

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everyday UNIX challenge, then shows you how to take basic syntax and turn it into a shell scripting solution. Covering Bash, Bourne, and Korn shell scripting, this updated edition provides complete

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shell scripts plus detailed descriptions of each part. UNIX programmers and system administrators can tailor these to build tools that monitor for specific system events and situations, building solid UNIX shell

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*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*

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*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*

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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.

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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

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Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the

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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

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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

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history substitution,
and key bindings How to
customize your shell
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*bolts of basic shell
programming, flow
control structures,
command-line options and
typed variables Process
handling, from job
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*coroutines and subshells
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such as trace and
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for implementing system-
wide shell customization
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cookbook's recipes into
sections on the problem,
the solution stated
simply, and the solution*

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implemented in code and discussed. The implementation and discussion sections are the most valuable, as they contain the command sequences, code

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*listings, and design
explanations that can be
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makes the most effective use of the Linux system, including the kernel and core system libraries. The majority of both Unix and Linux code is still written at the system level, and this book helps you focus on everything above the

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kernel, where applications such as Apache, bash, cp, vim, Emacs, gcc, gdb, glibc, ls, mv, and X exist. Written primarily for engineers looking to program at the low level, this updated edition of Linux System Programming

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operating system and suitable for a wide variety of UNIX-based courses, UNIX and Shell Programming goes beyond providing a reference of commands to offer a guide to basic commands and shell

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programming. Forouzan/Gilberg begin by introducing students to basic commands and tools of the powerful UNIX operating system. The authors then present simple scripting concepts, and cover all material required for

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understanding shells (e.g., Regular Expressions, grep, sed, and awk) before introducing material on the Korn, C, and Bourne shells. Throughout, in-text learning aids encourage active learning and rich visuals support

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concept presentation. For example, sessions use color so students can easily distinguish user input from computer output. In addition, illustrative figures help student visualize what the command is doing. Each chapter

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concludes with problems, including lab sessions where students work on the computer and complete sessions step-by-step. This approach has proven to be successful when teaching this material in the classroom.

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recipes that can immediately be
used, adjusted, and applied The
shell is the primary way of
communicating with the Unix**

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and Linux systems, providing a direct way to program by automating simple-to-intermediate tasks. With this book, Linux expert Steve Parker shares a collection of shell scripting recipes that can be

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used as is or easily modified for a variety of environments or situations. The book covers shell programming, with a focus on Linux and the Bash shell; it provides credible, real-world relevance, as well as providing

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easily modify so the wheel
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networking, the vi and emacs editors, three popular shells, programming tools, and system administration. Part II is a comprehensive reference containing descriptions and examples of 87 utilities. This

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automate repetitive tasks and solve real-world system administration problems Targets the specific command structure for four popular UNIX systems: Solaris, Linux, AIX, and HP-UX Illustrates dozens of example

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that interprets UNIX commands. It has many features that aren't found in other shells, including command history (the ability to recall and edit previous commands). The Korn shell is also faster; several of its

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features allow you to write programs that execute more quickly than their Bourne or C shell equivalents. This book provides a clear and concise explanation of the Korn shell's features. It explains ksh string operations, co-

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processes, signals and signal handling, and one of the worst "dark corners" of shell programming: command-line interpretation. It does this by introducing simple real-life examples and then adding options and complexity in

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for many UNIX users and programmers, including software developers who want to "prototype" their designs, system administrators who want to write tools for their own use, and even novices who just

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