

UNIX : The Textbook

By Syed Mansoor Sarwar, Robert M. Koretsky

Download now

Read Online →

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky

UNIX: The Textbook, Third Edition provides a comprehensive 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 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 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 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, 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 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 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-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 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 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 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.

 [Download UNIX : The Textbook ...pdf](#)

 [Read Online UNIX : The Textbook ...pdf](#)

UNIX : The Textbook

By Syed Mansoor Sarwar, Robert M. Koretsky

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky

UNIX: The Textbook, Third Edition provides a comprehensive 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 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 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 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, 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 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 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-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 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 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 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.

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky Bibliography

- Rank: #479612 in Books
- Published on: 2016-10-10
- Original language: English
- Dimensions: 10.10" h x 2.90" w x 7.20" l, .0 pounds
- Binding: Hardcover
- 1380 pages

 [Download UNIX : The Textbook ...pdf](#)

 [Read Online UNIX : The Textbook ...pdf](#)

Download and Read Free Online UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky

Editorial Review

Review

"... an in-depth and detailed presentation of the UNIX system."

?Hussein Abdel-Wahab, Department of Computer Science, Old Dominion University

"I have utilized Unix: The Textbook for classes I have taught, and recommend it as a reference for Unix users at all levels. This new edition has many updates, including new content for networking, graphical interfaces, and other contemporary topics. Students will appreciate the incremental introduction to Unix, and experts will appreciate the thoroughness and depth."

?Dr. Gregory Newby, research computing expert

About the Author

Mansoor Sarwar is a professor and principal at Punjab University College of Information Technology (PUCIT), and a former tenured associate professor in the Multnomah School of Engineering at the University of Portland (UP), Oregon. He received his MS and PhD in Computer Engineering from the Iowa State University (ISU), Ames, Iowa, and has over 28 years of post-PhD experience in teaching and research. He has over 35 research publications in international journals and conferences. He was nominated for the Best Graduate Researcher Award at ISU for his PhD research, and Best Researcher and Best Teacher awards at UP. He has been learning, using, and teaching UNIX since 1986. His family is spread over three continents: he currently resides in Lahore with his wife and younger son. His daughter is pursuing her masters degree in Textile Design Innovation in UK, and his older son runs a software company in Los Angeles.

Robert M. Koretsky is a retired lecturer in Mechanical Engineering at the Multnomah School of Engineering at the University of Portland, in Portland, Oregon. Principally educated at the Pratt Institute, in Brooklyn, New York, he has also worked as an Automotive Engineering Designer with the Freightliner Corp. in Portland. He currently resides in Portland, with his wife, two children, and two grandchildren.

Together, they are the authors of four textbooks on UNIX and Linux.

Users Review

From reader reviews:

Maria Macdonald:

Here thing why this particular UNIX : The Textbook are different and trustworthy to be yours. First of all reading through a book is good however it depends in the content from it which is the content is as scrumptious as food or not. UNIX : The Textbook giving you information deeper and in different ways, you can find any book out there but there is no reserve that similar with UNIX : The Textbook. It gives you thrill looking at journey, its open up your eyes about the thing that happened in the world which is probably can be

happened around you. You can easily bring everywhere like in park your car, café, or even in your method home by train. In case you are having difficulties in bringing the paper book maybe the form of UNIX : The Textbook in e-book can be your substitute.

Donald Shelby:

Often the book UNIX : The Textbook will bring that you the new experience of reading a book. The author style to elucidate the idea is very unique. When you try to find new book to see, this book very acceptable to you. The book UNIX : The Textbook is much recommended to you to study. You can also get the e-book from your official web site, so you can easier to read the book.

Ruth Santiago:

Beside this specific UNIX : The Textbook in your phone, it could possibly give you a way to get closer to the new knowledge or information. The information and the knowledge you might got here is fresh through the oven so don't always be worry if you feel like an outdated people live in narrow village. It is good thing to have UNIX : The Textbook because this book offers for your requirements readable information. Do you oftentimes have book but you seldom get what it's interesting features of. Oh come on, that will not end up to happen if you have this in your hand. The Enjoyable set up here cannot be questionable, such as treasuring beautiful island. Techniques you still want to miss this? Find this book as well as read it from at this point!

Adam Cuyler:

As we know that book is vital thing to add our understanding for everything. By a e-book we can know everything we would like. A book is a set of written, printed, illustrated or even blank sheet. Every year had been exactly added. This book UNIX : The Textbook was filled concerning science. Spend your time to add your knowledge about your research competence. Some people has different feel when they reading some sort of book. If you know how big selling point of a book, you can really feel enjoy to read a book. In the modern era like right now, many ways to get book that you simply wanted.

Download and Read Online UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky #WYSD1G XKZ52

Read UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky for online ebook

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky books to read online.

Online UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky ebook PDF download

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky Doc

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky Mobipocket

UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky EPub

WYSD1GXXKZ52: UNIX : The Textbook By Syed Mansoor Sarwar, Robert M. Koretsky