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TCP/IP Protocol Suite - Behrouz A. Forouzan
2003
Networking technologies have become an integral part of everyday life, which has led to a dramatic increase in the number of professions

where it is important to understand network technologies. TCP/IP Protocol Suite teaches students and professionals, with no prior knowledge of TCP/IP, everything they need to know about the subject. This comprehensive

book uses hundreds of figures to make technical concepts easy to grasp, as well as many examples, which help tie the material to the real-world. The second edition of TCP/IP Protocol Suite has been fully updated to include all of the recent technology changes in the field. Many new chapters have been added such as one on Mobile IP, Multimedia and Internet, Network Security, and IP over ATM. Additionally, out-of-date material has been overhauled to reflect recent changes in technology.

Assembly Language for X86 Processors - Kip R. Irvine 2017-07-13

Assembly language is as close to writing machine code as you can get without writing in pure hexadecimal. Since it is such a low-level language, it's not practical in all cases, but should definitely be considered when you're looking to maximize performance. With *Assembly Language* by Chris Rose, you'll learn how to write x64 assembly for modern CPUs, first by writing inline assembly for 32-bit

applications, and then writing native assembly for C++ projects. You'll learn the basics of memory spaces, data segments, CISC instructions, SIMD instructions, and much more. Whether you're working with Intel, AMD, or VIA CPUs, you'll find this book a valuable starting point since many of the instructions are shared between processors. This updated and expanded second edition of Book provides a user-friendly introduction to the subject, Taking a clear structural framework, it guides the reader through the subject's core elements. A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts. This succinct and enlightening overview is a required reading for all those interested in the subject. We hope you find this book useful in shaping your future career & Business.

Operating System Concepts Essentials, 2nd Edition - Abraham Silberschatz 2013-11-06

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.

Modern Operating Systems - Andrew S.

Tanenbaum 2014-03-10

Modern Operating Systems, Fourth Edition, is intended for introductory courses in Operating

Systems in Computer Science, Computer Engineering, and Electrical Engineering programs. It also serves as a useful reference for OS professionals. The widely anticipated revision of this worldwide best-seller incorporates the latest developments in operating systems (OS) technologies. The Fourth Edition includes up-to-date materials on relevant OS. Tanenbaum also provides information on current research based on his experience as an operating systems researcher. Modern Operating Systems, Third Edition was the recipient of the 2010 McGuffey Longevity Award. The McGuffey Longevity Award recognizes textbooks whose excellence has been demonstrated over time. <http://taaonline.net/index.html> Teaching and Learning Experience This program will provide a better teaching and learning experience—for you and your students. It will help: Provide Practical Detail on the Big Picture Concepts: A clear and entertaining

writing style outlines the concepts every OS designer needs to master. Keep Your Course Current: This edition includes information on the latest OS technologies and developments Enhance Learning with Student and Instructor Resources: Students will gain hands-on experience using the simulation exercises and lab experiments.

Foundations of Python Network

Programming - John Goerzen 2004-08-16

* Covers low-level networking in Python —essential for writing a new networked application protocol. * Many working examples demonstrate concepts in action -- and can be used as starting points for new projects. * Networked application security is demystified. * Exhibits and explains multitasking network servers using several models, including forking, threading, and non-blocking sockets. * Features extensive coverage of Web and E-mail. Describes Python's database APIs.

Advanced Networking Concepts Applied Using

Linux on IBM System z - Lydia Parziale
2012-03-06

This IBM® Redbooks® publication describes important networking concepts and industry standards that are used to support high availability on IBM System z®. Some of the networking standards described here are VLANs, VLAN trunking, link aggregation, virtual switches, VNICs, and load-balancing. We examine the various aspects of network setups and introduce the main Linux on System z networking commands and configuration files. We describe the management of network interface parameters, assignment of addresses to a network interface, and usage of the ifconfig command to configure network interfaces. We provide an overview of connectivity options available on the System z platform. We also describe high availability concepts and building a high availability solution using IBM Tivoli® System Automation. We also provide the implementation steps necessary to build a

redundant network connections set up between an IBM z/VM® system and the external network switches using two Open Systems Adapter-Express 3 (OSA-Express 3) adapters with 10 Gb Ethernet ports. We describe the tests performed in our lab environment. The objectives of these tests were to gather information about performance and failover from the perspective of a real scenario, where the concepts of described in this book were applied. This book is focused on information that is practical and useful for readers with experience in network analysis and engineering networks, System z and Linux systems administrators, especially for readers that administer networks in their day-to-day activities. For additional reading: A Technote is available that explains changes to using channel bonding interfaces introduced with SLES 11 SP 2. It can be found at:

<http://www.redbooks.ibm.com/abstracts/tips1000.html?Open>

Mobile Communications - Schiller 2008-09

Advanced Concepts in Operating Systems - Mukesh Singhal 2011

Computer Networks - Andrew S. Tanenbaum 2019-02

Operating Systems - Andrew S. Tanenbaum 2009
Featuring an introduction to operating systems, this work reflects advances in OS design and implementation. Using MINIX, this book introduces various concepts needed to construct a working OS, such as system calls, processes, IPC, scheduling, I/O, deadlocks, memory management, threads, file systems, security, and more.

Distributed Systems - Maarten van Steen 2017-02

For this third edition of -Distributed Systems, - the material has been thoroughly revised and extended, integrating principles and paradigms into nine chapters: 1. Introduction 2. Architectures 3. Processes 4. Communication 5.

Naming 6. Coordination 7. Replication 8. Fault tolerance 9. Security A separation has been made between basic material and more specific subjects. The latter have been organized into boxed sections, which may be skipped on first reading. To assist in understanding the more algorithmic parts, example programs in Python have been included. The examples in the book leave out many details for readability, but the complete code is available through the book's Website, hosted at www.distributed-systems.net. A personalized digital copy of the book is available for free, as well as a printed version through Amazon.com.

Computer Organization and Design - David A. Patterson 2011-10-26

"Presents the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies and I/O"--

Advanced Distributed Systems - Felix F. Ramos
2005-08-31

It is our pleasure to present the papers accepted and presented at the 5th International School and Symposium on Advanced Distributed Systems (ISSADS) in this LNCS volume. The symposium was held in the city of Guadalajara, Mexico from January 24 to 28, 2005. The organization team was composed of members of CINVESTAV Guadalajara, Rostock University in Germany, the CUCEI and CUCEA campuses of Guadalajara University, and Instituto Tecnológico y de Estudios Superiores de Occidente, ITESO. The symposium is already a well-established annual meeting, at which scientists and people from the industrial world meet and discuss the progress of applications and the theory of distributed systems in a forum during the last week of January. This year, more than 250 people from 3 continents attended the conference. Most of them are scientists, teachers, students and engineers from the local industry. The papers presented in the sessions of the symposium cover not only the subjects of distributed

systems from the system level and applications, but also contributions from the area of theory and artificial intelligence concepts. These papers were selected out of more than 100 submissions. There was a selection filter in which each paper was evaluated by at least three members of the International Program Committee, who came from research institutions of good reputation all over the world.

Computer Networks - Andrew S. Tanenbaum
1996

Computer Networks is the ideal introduction to today's and tomorrow's networks. This classic best-seller has been totally rewritten to reflect the networks of the late 1990s and beyond. Author, educator, and researcher Andrew S. Tanenbaum, winner of the ACM Karl V. Karlstrom Outstanding Educator Award, carefully explains how networks work inside, from the hardware technology up through the most popular network applications. The book takes a structured approach to networking,

starting at the bottom (the physical layer) and gradually working up to the top (the application layer). The topics covered include: *Physical layer (e.g., copper, fiber, radio, and satellite communication) *Data link layer (e.g., protocol principles, HDLC, SLIP, and PPP) *MAC Sublayer (e.g., IEEE 802 LANs, bridges, new high-speed LANs) *Network layer (e.g., routing, congestion control, internetworking, IPv6) *Transport layer (e.g., transport protocol principles, TCP, network performance) *Application layer (e.g., cryptography, email, news, the Web, Java, multimedia) In each chapter, the necessary principles are described in detail, followed by extensive examples taken from the Internet, ATM networks, and wireless

Operating Systems - Andrew S. Tanenbaum
1997

This is a practical manual on operating systems, which describes a small UNIX-like operating system, demonstrating how it works and illustrating the principles underlying it. The

relevant sections of the MINIX source code are described in detail, and the book has been revised to include updates in MINIX, which initially started as a v7 unix clone for a floppy-disk only 8088. It is now aimed at 386, 486 and pentium machines, and is based on the international posix standard instead of on v7. Versions of MINIX are now also available for the Macintosh and SPARC.

Computer Organization & Architecture 7e - Stallings 2008-02

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 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 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 [An Engineering Approach to Computer Networking](#) - Srinivasan Keshav 1997 Taking a unique "engineering" approach that will help readers gain a grasp of not just how but

also why networks work the way they do, this book includes the very latest network technology--including the first practical treatment of Asynchronous Transfer Mode (ATM). The CD-ROM contains an invaluable network simulator.

Computer Communications - William Stallings 1992

STRUCTURED COMPUTER ORGANIZATION
- 1996

[Computer and Communication Networks](#) - Nader F. Mir 2015

Computer and Communication Networks, Second Edition first establishes a solid foundation in basic networking concepts, TCP/IP schemes, wireless networking, Internet applications, and network security. Next, Mir delves into the mathematical analysis of networks, as well as advanced networking protocols. This fully-updated text thoroughly

explains the modern technologies of networking and communications among computers, servers, routers, and other smart communication devices, helping readers design cost-effective networks that meet emerging requirements. Offering uniquely balanced coverage of all key basic and advanced topics, it teaches through extensive, up-to-date case studies, 400 examples and exercises, and 250+ illustrative figures. Nader F. Mir provides the practical, scenario-based information many networking books lack, and offers a uniquely effective blend of theory and implementation. Drawing on extensive experience in the field, he introduces a wide spectrum of contemporary applications, and covers several key topics that competitive texts skim past or ignore completely, such as Software-Defined Networking (SDN) and Information-Centric Networking.

Distributed Computing - Ajay D. Kshemkalyani

2011-03-03

Designing distributed computing systems is a

complex process requiring a solid understanding of the design problems and the theoretical and practical aspects of their solutions. This comprehensive textbook covers the fundamental principles and models underlying the theory, algorithms and systems aspects of distributed computing. Broad and detailed coverage of the theory is balanced with practical systems-related issues such as mutual exclusion, deadlock detection, authentication, and failure recovery. Algorithms are carefully selected, lucidly presented, and described without complex proofs. Simple explanations and illustrations are used to elucidate the algorithms. Important emerging topics such as peer-to-peer networks and network security are also considered. With vital algorithms, numerous illustrations, examples and homework problems, this textbook is suitable for advanced undergraduate and graduate students of electrical and computer engineering and computer science. Practitioners in data networking and sensor networks will also

find this a valuable resource. Additional resources are available online at www.cambridge.org/9780521876346.

Business Data Networks and Security,

Global Edition - Julia L. Panko 2014-12-18

For undergraduate and graduate courses in Business Data Communication / Networking (MIS) Clear writing style, job-ready detail, and focus on the technologies used in today's marketplace Business Data Networks and Security guides readers through the details of networking, while helping them train for the workplace. It starts with the basics of security and network design and management; goes beyond the basic topology and switch operation covering topics like VLANs, link aggregation, switch purchasing considerations, and more; and covers the latest in networking techniques, wireless networking, with an emphasis on security. With this text as a guide, readers learn the basic, introductory topics as a firm foundation; get sound training for the

marketplace; see the latest advances in wireless networking; and learn the importance and ins and outs of security. Teaching and Learning Experience This textbook will provide a better teaching and learning experience-for you and your students. Here's how: *The basic, introductory topics provide a firm foundation. *Job-level content prepares students with the skills demanded by today's employers.*The latest in networking techniques and wireless networking, including a focus on security, keeps students up to date and aware of what's going on in the field. *The flow of the text guides students through the material. MyMISLab not included. Students, if MyMISLab is a recommended/mandatory component of the course, please ask your instructor for the correct ISBN and course ID. MyMISLab is not a self-paced technology and should only be purchased when required by an instructor. Instructors, contact your Pearson representative for more information. MyMISLab is an online homework,

tutorial, and assessment product designed to personalize learning and improve results. With a wide range of interactive, engaging, and assignable activities, students are encouraged to actively learn and retain tough course concepts.

Distributed Operating Systems - Andrew S. Tanenbaum 1995

As distributed computer systems become more pervasive, so does the need for understanding how their operating systems are designed and implemented. Andrew S. Tanenbaum's *Distributed Operating Systems* fulfills this need. Representing a revised and greatly expanded Part II of the best-selling *Modern Operating Systems*, it covers the material from the original book, including communication, synchronization, processes, and file systems, and adds new material on distributed shared memory, real-time distributed systems, fault-tolerant distributed systems, and ATM networks. It also contains four detailed case studies: Amoeba, Mach, Chorus, and OSF/DCE. Tanenbaum's

trademark writing provides readers with a thorough, concise treatment of distributed systems.

RFID and Sensor Networks - Yan Zhang
2009-11-04

The escalating demand for ubiquitous computing along with the complementary and flexible natures of Radio Frequency Identification (RFID) and Wireless Sensor Networks (WSNs) have sparked an increase in the integration of these two dynamic technologies. Although a variety of applications can be observed under development and in practical use, there

Operating System Concepts, 10e Abridged Print Companion - Abraham Silberschatz
2018-01-11

The tenth edition of *Operating System Concepts* has been revised to keep it fresh and up-to-date with contemporary examples of how operating systems function, as well as enhanced interactive elements to improve learning and the student's experience with the material. It

combines instruction on concepts with real-world applications so that students can understand the practical usage of the content. End-of-chapter problems, exercises, review questions, and programming exercises help to further reinforce important concepts. New interactive self-assessment problems are provided throughout the text to help students monitor their level of understanding and progress. A Linux virtual machine (including C and Java source code and development tools) allows students to complete programming exercises that help them engage further with the material. The Print Companion includes all of the content found in a traditional text book, organized the way you would expect it, but without the problems.

Computer Networks and Internets - Douglas Comer 2001

If you really want to understand how the Internet and other computer networks operate, start with Computer Networks and Internets,

Third Edition. Douglas E. Comer, who helped build the Internet, presents an up-to-the-minute tour of the Internet and internetworking, from low-level data transmission wiring all the way up to Web services and Internet application software. The new edition contains extensive coverage of network programming, plus authoritative introductions to many new Internet protocols and technologies, from CIDR addressing to Network Address Translation (NAT). Comer explains every networking layer, showing how facilities and services provided by one layer are used and extended in the next. Discover how networking hardware utilizes carrier signals, modulation and encoding; why internets use packet switching; how LANs, local loops, WANs, public and private networks work; and how protocols like TCP support internetworking. Understand the client/server model at the heart of most network applications, and master key Internet technologies such as CGI, DNS, E-mail, ADSL, and cable modems. This

new edition includes a complete new chapter on static and automatic Internet routing, introducing key concepts such as Autonomous Systems and hop metrics; as well as detailed coverage of label switching and virtual circuits.

Computer Networks - Behrouz A. Forouzan 2011

Computer Networking: A Top-Down Approach Featuring the Internet, 3/e - James F. Kurose 2005

Distributed Systems - George F. Coulouris 2011
"[This] book aims to provide an understanding of the principles on which the Internet and other distributed systems are based; their architecture, algorithms and design; and how they meet the demands of contemporary distributed applications."--p. xii.

Network Security Essentials: Applications and Standards, 4/e - William Stallings 2003

Business Data Communications - Behrouz A. Forouzan 2003

Designed for use in a data communications course for business majors. This book blends a technical presentation of networking concepts with many business applications. Each chapters is mapped out with chapter objectives and an overview at the beginning. It uses Business Emphasis boxes to pull out important business applications.

Computer Networks - Larry L. Peterson 2000

The Essentials of Computer Organization and Architecture - Linda Null 2014-02-14

Updated and revised, The Essentials of Computer Organization and Architecture, Third Edition is a comprehensive resource that addresses all of the necessary organization and architecture topics, yet is appropriate for the one-term course.

Data Communications and Networking - Behrouz A. Forouzan 2001-07

Computer Architecture - John L. Hennessy 2012
The computing world today is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation today. The Fifth Edition of *Computer Architecture* focuses on this dramatic shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops, and other mobile computing devices. Each chapter includes two real-world examples, one mobile and one datacenter, to illustrate this revolutionary change. Updated to cover the mobile computing revolution Emphasizes the two most important topics in architecture today: memory hierarchy and parallelism in all its forms. Develops common themes throughout each chapter: power, performance, cost, dependability, protection, programming models, and emerging trends ("What's Next") Includes three review appendices in the printed text. Additional

reference appendices are available online. Includes updated Case Studies and completely new exercises.

Computer Networks - Tanenbaum 2011
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. Each chapter follows a consistent approach: Tanenbaum presents key principles, then illustrates them utilizing real-world example networks that run through the entire book-the Internet, and wireless networks, including Wireless LANs, broadband wireless and Bluetooth. The Fifth Edition includes a chapter

devoted exclusively to network security. The textbook is supplemented by a Solutions Manual, as well as a Website containing PowerPoint slides, art in various forms, and other tools for instruction, including a protocol simulator whereby students can develop and test their own network protocols.

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 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.

Distributed Systems - Andrew S. Tanenbaum
2016-02-26

This second edition of *Distributed Systems, Principles & Paradigms*, covers the principles, advanced concepts, and technologies of distributed systems in detail, including: communication, replication, fault tolerance, and

security. Intended for use in a senior/graduate level distributed systems course or by professionals, this text systematically shows how distributed systems are designed and implemented in real systems.

Modern Operating Systems - Andrew S. Tanenbaum 2013

For Introductory Courses in Operating Systems in Computer Science, Computer Engineering,

and Electrical Engineering programs. The widely anticipated revision of this worldwide best-seller incorporates the latest developments in operating systems (OS) technologies. The Third Edition includes up-to-date materials on relevant OS such as Linux, Windows, and embedded real-time and multimedia systems. Tanenbaum also provides information on current research based on his experience as an operating systems researcher.