

Computer Networking From Lans To Wans Hardware Software And Security Networking

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Introduction to Networking - Wendell Odom
2013

Strategic Networking - Paul David Henry 1996

For professionals looking to optimize their networking capabilities, this book introduces and integrates the features and power of current network technologies. It is a single information source on such technologies as Internet, TCPIP, data communications, and telecommunications that are usually covered in separate places. Includes cable and wireless transmission media and a range of network services.

Data Communication and Computer Networks: A Business User's Approach - Jill West 2022-01-19

Whether you are preparing for a career as a business manager, computer programmer or system designer, or you simply want to be an informed home computer user, West's DATA COMMUNICATIONS AND COMPUTER NETWORKS, 9th Edition provides an understanding of the essential features, operations and limitations of today's computer networks. You learn about systems both on premises and in the cloud as the author balances technical concepts with practical, everyday issues. Updates address the latest developments and practices in cloud business principles and security techniques, software-defined networking, 5G, the Internet of Things, data analytics and supporting remote workforces. This edition also covers the CompTIA's Cloud Essentials+ exam to help you prepare for this

vendor-neutral, business-oriented cloud computing certification. Hands-on learning features and thought-provoking content also guide you through virtual networking technologies, industry convergence and wired and wireless LAN technologies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Networking Fundamentals - Crystal Panek
2019-10-23

A clear and concise resource on Windows networking, perfect for IT beginners Did you know that nearly 85% of IT support roles require a good understanding of networking concepts? If you are looking to advance your IT career, you will need a foundational understanding of Windows networking. Network Fundamentals covers everything you need to know about network infrastructures, hardware, protocols, and services. You will learn everything you need to gain the highly in-demand Networking Fundamentals MTA Certification. This entry-level credential could be your first step into a rewarding, stable and lucrative IT career. This new Sybex guide covers the basics of networking starting from the "ground level," so no previous IT knowledge is required. Each chapter features approachable discussion of the latest networking technologies and concepts, closing with a quiz so you can test your knowledge before moving to the next section. Even if you are brand new to computers, Network Fundamentals will guide

you to confidence and mastery. Understand wired and wireless networks in every detail Learn everything you need to attain the Networking Fundamentals MTA Certification Test your knowledge with end-of-chapter quiz questions Understand internet protocol (IP) and categorize IPv4 addresses Work with networking services and area networks Define network infrastructures and network security, including intranets, extranets, and VPNs Beginning and established IT professionals looking to understand more about networking will gain the knowledge to create a network diagram and confidently explain basic networking concepts. Thanks to the features in this book, you will be able to apply your new networking skills in real world situations and feel confident when taking the certification test.

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

Networking Self-Teaching Guide - James Edwards 2015-03-24

IT professionals who want to move into the networking side in a corporate or enterprise setting will find the detailed content they need to get up to speed on the very latest networking technologies; plus, current networking professionals will find this a valuable and up-to-date resource. This hands-on guide is designed so that you can select, design, and implement an actual network using the tutorials and steps in the book. Coverage includes an overview of networking technologies, including the hardware, software, transmission media, and data transfer processes; in-depth coverage of OSI and TCP/IP reference models; operating systems and other systems software used in today's networks; LANs, WANS, and MANs, including the components and standards that operate within each type of area network; and more.

Protecting Critical Information & Technology - DIANE Publishing Company 1997-06-01

Partial contents: plenary sessions (intellectual property & national security; technology transfer; economic espionage); workshops (establishing an OPSEC program); acquisition/treaties (arms control synergism; on-site inspection); counterintelligence/ intelligence

(Chinese security & economic interests; environmental terrorism); counterintelligence/law enforcement (counter-narcotics); economics (Japanese business intelligence; protecting trade secrets); general issues (computer crime; literature intelligence; FOIA requests; deception & cognition); technology (semiconductor industry; unclassified technology; call diversion).

DATA COMMUNICATIONS AND COMPUTER NETWORKS - BRIJENDRA SINGH 2014-02-11

This fully revised and updated book, now in its Fourth Edition, continues to provide a comprehensive coverage of data communications and computer networks in an easy to understand style. The text places as much emphasis on the application of the concepts as on the concepts themselves. While the theoretical part is intended to offer a solid foundation of the basics so as to equip the student for further study, the stress on the applications is meant to acquaint the student with the realistic status of data communications and computer networks as of now. Audience Intended primarily as a textbook for the students of computer science and engineering, electronics and communication engineering, master of computer applications (MCA), and those offering IT courses, this book would also be useful for practising professionals. NEW TO THIS EDITION • Three new chapters on: o Network Architecture and OSI Model o Wireless Communication Technologies o Web Security • Appendix on Binary and Hexadecimal Numbering Key features • Illustrates the application of the principles through highly simplified block diagrams. • Contains a comprehensive glossary which gives simple and accurate descriptions of various terms. • Provides Questions and Answers at the end of the book which facilitate quick revision of the concept.

Networking Bible - Barrie Sosinsky 2009-08-13

Everything you need to set up and maintain large or small networks Barrie Sosinsky Networking Bible Create a secure network for home or enterprise Learn basic building blocks and standards Set up for broadcasting, streaming, and more The book you need to succeed! Your A-Z guide to networking essentials Whether you're setting up a global infrastructure or just networking two computers

at home, understanding of every part of the process is crucial to the ultimate success of your system. This comprehensive book is your complete, step-by-step guide to networking from different architectures and hardware to security, diagnostics, Web services, and much more. Packed with practical, professional techniques and the very latest information, this is the go-to resource you need to succeed. Demystify the basics: network stacks, bus architectures, mapping, and bandwidth Get up to speed on servers, interfaces, routers, and other necessary hardware Explore LANs, WANs, Wi-Fi, TCP/IP, and other types of networks Set up domains, directory services, file services, caching, and mail protocols Enable broadcasting, multicasting, and streaming media Deploy VPNs, firewalls, encryption, and other security methods Perform diagnostics and troubleshoot your systems

Networking For Dummies - Doug Lowe

2020-07-14

Set up a secure network at home or the office Fully revised to cover Windows 10 and Windows Server 2019, this new edition of the trusted Networking For Dummies helps both beginning network administrators and home users to set up and maintain a network. Updated coverage of broadband and wireless technologies, as well as storage and back-up procedures, ensures that you'll learn how to build a wired or wireless network, secure and optimize it, troubleshoot problems, and much more. From connecting to the Internet and setting up a wireless network to solving networking problems and backing up your data—this #1 bestselling guide covers it all. Build a wired or wireless network Secure and optimize your network Set up a server and manage Windows user accounts Use the cloud—safely Written by a seasoned technology author—and jam-packed with tons of helpful step-by-step instructions—this is the book network administrators and everyday computer users will turn to again and again.

Computer Networking for LANS to WANS: Hardware, Software and Security - Kenneth C. Mansfield, Jr. 2009-06-03

Designed for the beginner yet useful for the expert, **COMPUTER NETWORKING FROM LANS TO WANS: HARDWARE, SOFTWARE, AND SECURITY** covers all aspects of computer

networking. Hardware details such as the operation of Ethernet, network media and devices, including hubs, switches, routers, and physical topology, are provided, with many design and troubleshooting examples. Software details such as the operation of the TCP/IP protocols, routing protocols, and network operating systems are examined. Applications, such as FTP, Telnet, and email are explained in detail, as are the requirements of writing client/server applications, with several working examples provided. Techniques for applying security to networking and computing activities are covered, including network management, secure communication methods such as SSH, TLS, and VPN, and the fundamentals of forensics. A strong pedagogical approach introduces each new topic with practical, real-world examples, and step-by-step Hands-On Projects. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advanced Data Communications and Networks - Bill Buchanan 1998-05-12

The use of data communications and computer networks is constantly increasing, bringing benefits to most of the countries and peoples of the world, and serving as the lifeline of industry. Now there is a textbook that discusses data communications and networking in a readable form that can be easily understood by students who will become the IS professionals of the future. Advanced Data Communications and Networks provides a comprehensive and practical treatment of rapidly evolving areas. The text is divided into seven main sections and appendices: " General data compression " Video, images, and sound " Error coding and encryption " TCP/IP and the Internet " Network operating systems " LANs/WANs " Cables and connectors Other topics include error detection/correction, image/video compression, digital video, digital audio, TCP/IP, HTTP, electronic mail, HTML, Windows NT, NetWare, UNIX, Fast Ethernet, ATM, FDDI, and much more. Written by a respected academician who is also an accomplished engineer, this textbook uses the author's wide practical experience in applying techniques and theory toward solving real engineering problems. It also includes an

accompanying Web site that contains software, source code, and other supplemental information.

[Studyguide for Computer Networking for LANS to WANS](#) - Cram101 Textbook Reviews 2013-05
Never HIGHLIGHT a Book Again Virtually all testable terms, concepts, persons, places, and events are included. Cram101 Textbook Outlines gives all of the outlines, highlights, notes for your textbook with optional online practice tests. Only Cram101 Outlines are Textbook Specific. Cram101 is NOT the Textbook. Accompanys: 9780521673761

The Handbook of Computer Networks - Hossein Bidgoli 2007-12-04

The Handbook of Computer Networks is the first single, comprehensive treatment of the subject available. Written by noted author and expert Hossein Bidgoli, this three-volume masterpiece presents an in-depth understanding of computer networks that is broad in scope and practical in application. Each volume covers a wide range of topics with state-of-the-art information, practical applications, and emerging issues. Whether you're an IT manager, researcher, or student, this is the ideal resource on every aspect of networking.

A Practical Guide to Red Hat Linux 8 - Mark G. Sobell 2003

A guide to Linux covers such topics as logging in, compressing files, using the command line, scripting, and security.

The Essential Guide to Computing - E. Garrison Walters 2001

An overview of the industry covers the history of computing technology, state of the art hardware, software development, and network communications infrastructures, protocols, and applications.

Computer Networking: The Complete Guide - Benjamin Murray 2021-11-16

A computer network is defined as a digital communications network which allows sharing of information and resources between nodes. The network between these nodes could be either wired, optical, wireless or a combination of them. The nodes could include a variety of devices such as servers, personal computers, networking hardware, etc. Depending upon the size of the networks or the number of devices connected, they can be classified into four

categories, namely, personal area network (PAN), local area network (LAN), metropolitan area network (MAN) and wide area network (WAN). They can also be classified on the basis of the layout arrangements into bus, star, ring, mesh and tree topology. Computer networks have many applications such as access to World Wide Web, instant messaging, e-mail and shared use of devices like fax machines, printers, storage servers, etc. The topics included in this book on computer networking are of utmost significance and bound to provide incredible insights to readers. It explores all the important aspects of computer networking in the present day scenario. Those in search of information to further their knowledge will be greatly assisted by this book.

Networking: A Beginner's Guide, Sixth Edition - Bruce Hallberg 2013-10-18

Current, essential IT networking skills--made easy! Thoroughly revised to cover the latest technologies, this practical resource provides you with a solid foundation in networking fundamentals. Networking: A Beginner's Guide, Sixth Edition discusses wired and wireless network design, configuration, hardware, protocols, security, backup, recovery, and virtualization. You'll also get step-by-step instructions for installing, configuring, and managing Windows Server 2012, Exchange Server 2013, Oracle Linux, and Apache. This is the perfect book for anyone starting a networking career or in need of an easy-to-follow refresher. Understand network cabling, topologies, hardware, and the OSI seven-layer model Connect LANs and WANs Configure network protocols, such as TCP/IP, IPX/SPX, SMTP, DHCP, HTTP, WINS, and more Explore directory services, such as Microsoft's Active Directory, X.400, and LDAP Enable and support remote network access Secure your network and handle backup and disaster recovery Select, install, and manage reliable network servers, including Windows Server 2012, Exchange Server 2013, Oracle Linux, and Apache Manage network workstation computers Design a robust network from the ground up Work with virtualization technologies, such as Hyper-V, VMWare, and Oracle VM VirtualBox

Computer Networking from LANs to WANs - Kenneth C. Mansfield 2009-07-01

Designed for the beginner yet useful for the expert, **COMPUTER NETWORKING FROM LANS TO WANS: HARDWARE, SOFTWARE, AND SECURITY** covers all aspects of computer networking. Hardware details such as the operation of Ethernet, network media and devices, including hubs, switches, routers, and physical topology, are provided, with many design and troubleshooting examples. Software details such as the operation of the TCP/IP protocols, routing protocols, and network operating systems are examined. Applications, such as FTP, Telnet, and email are explained in detail, as are the requirements of writing client/server applications, with several working examples provided. Techniques for applying security to networking and computing activities are covered, including network management, secure communication methods such as SSH, TLS, and VPN, and the fundamentals of forensics.

Data Communications Networking Devices - Gilbert Held 1999-01-05

Data Communications Networking Devices Operation, Utilization and LAN and WAN Internetworking Fourth Edition Gilbert Held 4-Degree Consulting, Macon, Georgia, USA Data communications continue to grow enormously as a key part of telecommunications. Technological advances mean up-to-date information is essential. This fourth edition of the popular and authoritative text *Data Communications Networking Devices* examines the characteristics, operation and applications of the devices used to construct a data communications network. It enables readers to operate and utilize the networking devices used in the design, modification or optimization of a data communications network. Features include: *

- Extensive coverage of the fundamental concepts of data communications
- New sections on ATM/broadband networking, LAN/WAN switches and new examples of network integration devices
- Examination of the specialized devices such as security devices, LZW compression and voice digitizers
- Discusses the different types of networks, network architecture and the flow of data between several networks
- Questions at the end of each chapter to assist understanding.

More than a comprehensive reference book, *Data Communications Networking Devices* is

ideal as a self study guide too. It is essential reading for network managers and telecommunications engineers, data processing managers and information system managers.

Visit Our Web Page! <http://www.wiley.com/>

JUNOS Enterprise Switching - Harry Reynolds 2009-07-16

JUNOS Enterprise Switching is the only detailed technical book on Juniper Networks' new Ethernet-switching EX product platform. With this book, you'll learn all about the hardware and ASIC design prowess of the EX platform, as well as the JUNOS Software that powers it. Not only is this extremely practical book a useful, hands-on manual to the EX platform, it also makes an excellent study guide for certification exams in the JNTCP enterprise tracks. The authors have based *JUNOS Enterprise Switching* on their own Juniper training practices and programs, as well as the configuration, maintenance, and troubleshooting guidelines they created for their bestselling companion book, *JUNOS Enterprise Routing*. Using a mix of test cases, case studies, use cases, and tangential answers to real-world problems, this book covers: Enterprise switching and virtual LANs (VLANs) The Spanning tree protocol and why it's needed Inter-VLAN routing, including route tables and preferences Routing policy and firewall filters Switching security, such as DHCP snooping Telephony integration, including VLAN voice Part of the Juniper Networks Technical Library, *JUNOS Enterprise Switching* provides all-inclusive coverage of the Juniper Networks EX product platform, including architecture and packet flow, management options, user interface options, and complete details on JUNOS switch deployment.

Computer Networks - John Y. Hsu 1996

The explosive growth of computer networking is creating new pressures on computer professionals not only to have a firm grasp of networking basics, but also to understand the latest developments in network design, software implementation, and network management. This comprehensive, practical book provides that critical understanding by clearly detailing networking fundamentals, operating system essentials, and cutting-edge LAN and WAN design features.

[The Internet Encyclopedia, Volume 2 \(G - O\)](#) -

Hossein Bidgoli 2004-04-27

The Internet Encyclopedia in a 3-volume reference work on the internet as a business tool, IT platform, and communications and commerce medium.

The TCP/IP Guide - Charles M. Kozierok
2005-10-01

From Charles M. Kozierok, the creator of the highly regarded www.pcguides.com, comes The TCP/IP Guide. This completely up-to-date, encyclopedic reference on the TCP/IP protocol suite will appeal to newcomers and the seasoned professional alike. Kozierok details the core protocols that make TCP/IP internetworks function and the most important classic TCP/IP applications, integrating IPv6 coverage throughout. Over 350 illustrations and hundreds of tables help to explain the finer points of this complex topic. The book's personal, user-friendly writing style lets readers of all levels understand the dozens of protocols and technologies that run the Internet, with full coverage of PPP, ARP, IP, IPv6, IP NAT, IPSec, Mobile IP, ICMP, RIP, BGP, TCP, UDP, DNS, DHCP, SNMP, FTP, SMTP, NNTP, HTTP, Telnet, and much more. The TCP/IP Guide is a must-have addition to the libraries of internetworking students, educators, networking professionals, and those working toward certification.

Student Files for Mansfield/Antonakos' Computer Networking for LANS to WANS - Kenneth C. Mansfield, Jr. 2009-04-23

Networking Explained - Michael Gallo
2001-12-17

Networking Explained 2e offers a comprehensive overview of computer networking, with new chapters and sections to cover the latest developments in the field, including voice and data wireless networking, multimedia networking, and network convergence. Gallo and Hancock provide a sophisticated introduction to their subject in a clear, readable format. These two top networking experts answer hundreds of questions about hardware, software, standards, and future directions in network technology. Wireless networks Convergence of voice and data Multimedia networking

Introduction to Business - Lawrence J. Gitman
2018

Introduction to Business covers the scope and sequence of most introductory business courses. The book provides detailed explanations in the context of core themes such as customer satisfaction, ethics, entrepreneurship, global business, and managing change. Introduction to Business includes hundreds of current business examples from a range of industries and geographic locations, which feature a variety of individuals. The outcome is a balanced approach to the theory and application of business concepts, with attention to the knowledge and skills necessary for student success in this course and beyond.

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

Mapping Biological Systems to Network Systems
- Heena Rathore 2016-02-10

The book presents the challenges inherent in the paradigm shift of network systems from static to highly dynamic distributed systems - it proposes solutions that the symbiotic nature of biological systems can provide into altering networking systems to adapt to these changes. The author discuss how biological systems - which have the inherent capabilities of evolving, self-organizing, self-repairing and flourishing with time - are inspiring researchers to take opportunities from the biology domain and map them with the problems faced in network domain. The book revolves around the central idea of bio-inspired systems -- it begins by exploring why biology and computer network research are such a natural match. This is followed by presenting a broad overview of biologically inspired research in network systems -- it is classified by the biological field that inspired each topic and by the area of networking in which that topic lies. Each case elucidates how biological concepts have been most successfully applied in various domains. Nevertheless, it also presents a case study discussing the security aspects of wireless sensor networks and how biological solution stand out in comparison to optimized solutions. Furthermore, it also discusses novel biological solutions for solving problems in diverse engineering domains such as mechanical, electrical, civil, aerospace, energy and agriculture. The readers will not only get proper understanding of the bio inspired systems but also better insight for developing novel bio inspired solutions.

Computer Security: Protecting Digital Resources
- Robert C Newman 2009-06-23

Today, society is faced with numerous internet schemes, fraudulent scams, and means of identity theft that threaten our safety and our peace of mind. Computer Security: Protecting Digital Resources provides a broad approach to computer-related crime, electronic commerce, corporate networking, and Internet security, topics that have become increasingly important as more and more threats are made on our internet environment. This book is oriented toward the average computer user, business professional, government worker, and those within the education community, with the expectation that readers can learn to use the network with some degree of safety and security. The author places emphasis on the numerous vulnerabilities and threats that are inherent in the Internet environment. Efforts are made to present techniques and suggestions to avoid identity theft and fraud. Readers will gain a clear insight into the many security issues facing the e-commerce, networking, web, and internet environments, as well as what can be done to keep personal and business information secure.

Official Gazette of the United States Patent and Trademark Office - 2005

Computer Networks and Internets - Douglas Comer 1997

Suitable for those with little or no background, this text offers an overview of networking and Internet technology. It provides a tour through all of networking, from the lowest level of data transmission and wiring to the highest levels of application software. An accompanying CD-ROM and Web site provide opportunities for a variety of hands on experiences. The CD contains copies of text figures, digitized images of network wiring and equipment, and files of data that can be used as input to student programs, a key search mechanism, and links to the Web site.

Tools for Teaching Computer Networking and Hardware Concepts - Sarkar, Nurul 2006-02-28

"This book offers concepts of the teaching and learning of computer networking and hardware by offering fundamental theoretical concepts illustrated with the use of interactive practical exercises"--Provided by publisher.

Network Basics Companion Guide - Cisco Networking Academy 2013-10-28

Network Basics Companion Guide is the official supplemental textbook for the Network Basics course in the Cisco® Networking Academy® CCNA® Routing and Switching curriculum. Using a top-down OSI model approach, the course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, you will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. The Companion Guide is designed as a portable desk reference to use anytime, anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course: Chapter Objectives—Review core concepts by answering the focus questions listed at the beginning of each chapter. Key Terms—Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary—Consult the comprehensive Glossary with more than 250 terms. Summary of Activities and Labs—Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding—Evaluate your readiness with the end-of-chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. How To—Look for this icon to study the steps you need to learn to perform certain tasks. Interactive Activities—Reinforce your understanding of topics with more than 50 different exercises from the online course identified throughout the book with this icon. Videos—Watch the videos embedded within the online course. Packet Tracer Activities—Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters. Hands-on Labs—Work through all 68 course labs and Class Activities that are included in the course and published in the separate Lab Manual.

Computer Networking Essentials - Debra Littlejohn Shinder 2001

"Computer Networking Essentials" starts with

an introduction to networking concepts. Readers learn computer networking terminology and history, and then dive into the technical concepts involved in sharing data across a computer network.

Internetworking LANs and WANs - Gilbert Held 1998-06-29

The rapid increase in Internet connections has caused a dramatic rise in the technological and administrative difficulties experienced by LAN and WAN users and managers as they try to meet the demand for intercompatibility between diverse systems. This practical book addresses these challenges by covering the latest technological advancements, including high speed LANs FDDI, Fast Ethernet and ATM, token ring, TCP/IP, and more.

Computer Networking First-step - Wendell Odom 2004

Gain an understanding of internetworking basics with this reader-friendly guide, plus learn about LANs, WANs, remote access, and security. This book is an accessible, easy-to-understand introduction to the language of the Internet, featuring clear, concise explanations.

Computer Networking - Olivier Bonaventure 2016-06-10

Original textbook (c) October 31, 2011 by Olivier Bonaventure, is licensed under a Creative Commons Attribution (CC BY) license made possible by funding from The Saylor Foundation's Open Textbook Challenge in order to be incorporated into Saylor's collection of open courses available at: <http://www.saylor.org>. Free PDF 282 pages at <https://www.textbookequity.org/bonaventure-computer-networking-principles-protocols-and-practice/>

This open textbook aims to fill the gap between the open-source implementations and the open-source network specifications by providing a detailed but pedagogical description of the key principles that guide the operation of the Internet. 1 Preface 2 Introduction 3 The application Layer 4 The transport layer 5 The network layer 6 The datalink layer and the Local Area Networks 7 Glossary 8 Bibliography

Computer Networking for LANS to WANS: Hardware, Software and Security - Kenneth C. Mansfield, Jr. 2009-06-03

Designed for the beginner yet useful for the expert, COMPUTER NETWORKING FROM LANS

TO WANS: HARDWARE, SOFTWARE, AND SECURITY provides comprehensive coverage of all aspects of networking. This book contains 24 chapters illustrating network hardware and software, network operating systems, multimedia and the Internet, and computer and network security and forensics. Six appendices provide coverage of the history of the Internet, the ASCII code, the operation of MODEMs, tips on becoming certified in network, security, and forensics, telecommunication technologies, and setting up a computer repair shop. A companion CD includes numerous videos and files that allow the reader to perform important hands-on networking, security, and forensic activities. Important Notice: Media content referenced within the product description or the product

text may not be available in the ebook version.

Packet Guide to Core Network Protocols -
Bruce Hartpence 2011-06-03

Take an in-depth tour of core Internet protocols and learn how they work together to move data packets from one network to another. With this concise book, you'll delve into the aspects of each protocol, including operation basics and security risks, and learn the function of network hardware such as switches and routers. Ideal for beginning network engineers, each chapter in this book includes a set of review questions, as well as practical, hands-on lab exercises.

Understand basic network architecture, and how protocols and functions fit together. Learn the structure and operation of the Eth.