

# Data Communications And Networking Solution

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*Breakthrough Perspectives in Network and Data Communications Security, Design, and Applications* - Indranil Bose 2009

Modern organizations are critically dependent on data communications and network systems utilized in managing information and communications, vital to continuity and success of operations. ""Breakthrough Perspectives in Network and Data Communications Security, Design and Applications"" addresses key issues and offers expert viewpoints into the field of network and data communications, providing the academic, information technology, and managerial communities with the understanding necessary to implement robust, secure, and effective solutions. This much-needed addition to library and professional collections offers a matchless set of

high quality research articles and premier technologies to address the most salient issues in network and data communications.

[Data and Computer Communications](#) - William Stallings 2000

**Computer Networks** - Behrouz A. Forouzan 2011

**Communications and Networking** - John Cowley 2012-09-11

This textbook presents a detailed introduction to the essentials of networking and communications technologies. Revised and updated, this new edition retains the step-by-step approach of the original, organised to help those without a strong knowledge of the subject matter. Features:

provides chapter-ending summaries and review questions, an Appendix on TCP/IP packet formats and an expanded Glossary; supplies supplementary material at the associated Springer website, including teaching slides, solutions to the end-of-chapter questions and supplementary exercises with solutions; presents a greater emphasis on mobile computing and network security, and extended coverage of IPv6 (NEW); discusses networking models and standards, local area and wide area networks, network protocols, TCP/IP-based networks, network management and wireless communications; examines grid and cloud computing, microblogging, mobile ad hoc networks, near-field communication, Power over Ethernet and the Ground Positioning System (NEW).

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

*Handbook of Fiber Optic Data Communication* - Casimer DeCusatis  
2002-04-13

The Handbook includes chapters on all the major industry standards, quick reference tables, helpful appendices, plus a new glossary and list of acronyms. This practical handbook can stand alone or as a companion

volume to DeCusatis: *Fiber Optic Data Communication: Technological Advances and Trends* (February 2002, ISBN: 0-12-207892-6), which was developed in tandem with this book. \* Includes emerging technologies such as Infiniband, 10 Gigabit Ethernet, and MPLS Optical Switching \* Describes leading edge commercial products, including LEAF and MetroCore fibers, dense wavelength multiplexing, and Small Form Factor transceiver packages \* Covers all major industry standards, often written by the same people who designed the standards themselves \* Includes an expanded listing of references on the World Wide Web, plus hard-to-find references for international, homologation, and type approval requirements \* Convenient tables of key optical datacom parameters and glossary with hundreds of definitions and acronyms \* Industry buzzwords explained, including SAN, NAS, and MAN networking \* Datacom market analysis and future projections from industry leading forecasters

Understanding Data Communications - Gilbert Held 1996

This expanded and completely updated edition, of the popular text reflects the major changes to communications technology since 1990. New coverage includes discussions of ATM and Frame Relay, Ethernet and Token-Ring Networks, and expanded treatment of satellite communications. There is also new material on the ATM LAN versus WAN evolution as well as new sections on LAN networking and Internetworking.

Emphasis is given throughout to reflect the emergence of the Internet with timely information on TCP/IP, NetWare, and LAN applications.

#### **High Performance TCP/IP Networking - Mahbub Hassan 2004**

Written by best selling author, Raj Jain, and his authoritative co-author, this book features leading edge issues and solutions for high performance TCP/IP networking, this easy-to-read book provides a one-stop-shop for coverage of the many changes to the TCP protocol over the last two decades and all important research results. Professionals can keep themselves up-to-date with advances in this area and learn many potential performance problems and solutions for running TCP/IP in the emerging networking environment. An international expert in the field captures state of the art topics in each chapter in the five-part organization. Part I introduces the scope of the book, Part II provides detailed coverage of the tools and techniques for performance evaluation of TCP/IP networks, Part III examines the performance concepts and issues for running TCP/IP in the emerging network environment, Part IV discusses congestion control, and Part V explores the performance issues in implementing TCP/IP in the end system. For network engineers, R&D managers, research scientists, and network administrators.

#### **PC Magazine Guide to Home Networking - Les Freed 2004-02-06**

Networking--it's not just for the office any more. Here's how to get all your

electronic devices on the same team Ready to plunge into creating your own home network? You couldn't ask for a better guide through the networking maze than PC Magazine contributing editor Les Freed. From why you should network to whether you need a switch or a hub and how to hook in your Playstation, reading this book is like having Les drop by and set the whole thing up for you. And you don't even need to move those back issues of PC Magazine off the couch. \* With expert advice, you can't go wrong \* Check out all the advantages of a home network \* Get a crash course in networking technology \* Design the network that fits your needs and your budget \* Compare wired and wireless products \* Learn how to prepare your computers for networking \* Whip up a specialized recipe from the Home Networking Cookbook \* Protect your investment with troubleshooting tips \* Build a network using the existing wiring in your home \* Discover how to keep your private information private \* Make all your home entertainment devices part of the network Visit [www.wiley.com/compbooks/pcmag](http://www.wiley.com/compbooks/pcmag)

#### **ISE Data Communications and Networking with TCP/IP Protocol Suite -**

Behrouz A. Forouzan 2021-01-06

"Data Communications and Networking, 6th Edition, teaches the principles of networking using TCP/IP protocol suite. It employs a bottom-up approach where each layer in the TCP/IP protocol suite is built on the

services provided by the layer below. This edition has undergone a major restructuring to reduce the number of chapters and focus on the organization of TCP/IP protocol suite. It concludes with three chapters that explore multimedia, network management, and cryptography/network security. Technologies related to data communications and networking are among the fastest growing in our culture today, and there is no better guide to this rapidly expanding field than *Data Communications and Networking*." -- Provided by publisher.

*Data Networks* - Dimitri P. Bertsekas 1992-01-01

This volume is designed to develop an understanding of data networks and evolving integrated networks, and to explore evolving integrated networks and the various analysis and design tools. It begins with an overview of the principles behind data networks, then develops an understanding of the modelling issues and mathematical analysis needed to compare the effectiveness of different networks.

*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

**Data Communications and Computer Networks: A Business User's Approach** - Curt White 2015-01-01

Balancing the most technical concepts with practical everyday issues, DATABASE COMMUNICATIONS AND COMPUTER NETWORKS, 8e provides thorough coverage of the basic features, operations, and limitations of different types of computer networks--making it the ideal resource for future business managers, computer programmers, system designers, as well as home computer users. Offering a comprehensive introduction to computer networks and data communications, the book includes coverage of the language of computer networks as well as the effects of data communications on business and society. It provides full coverage of wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, and error detection and correction. The Eighth Edition also offers up-to-the-minute coverage of near field communications, updated USB interface, lightning interface, and IEEE 802.11 ac and ad wireless standards, firewall updates, router security problems, the Internet of Things, cloud computing, zero-client

workstations, and Internet domain names. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Network Technology for Digital Audio* - Andy Bailey 2013-07-18

Network Technology for Digital Audio examines the transfer of audio and other related data over digital communication networks. Encompassing both the data communication and audio industries, it unravels the intricacies of computer networking technique and theory, viewed from an audio perspective. Looking at commercial and ratified standards both current and developing, this book covers digital architectural solutions such as IEEE 1394 (Firewire), USB, Fibre Channel and ATM alongside their counterparts within the audio industry: \*S/P DIF, ADAT, AES/EBU and MADI are discussed from the audio industry standpoint and solutions contrasted \*Explanations of packet switching and internetworking are also included. Studying new developments and trends, it covers the pros and cons and looks at the work being done to deliver the requirements of the digital audio environment. Proprietary and open systems developed within the audio industry are examined, with each case being supported with appropriate history and clear technical explanation. The book helps readers build a better understanding of the issues surrounding the transfer of real-time audio digital data. Touching on the history of the Internet, and

the technologies it spawned, it explains the theory and possibilities for the same technologies to support inter-device communications within a studio environment. *Network Technology For Digital Audio* will provide on tap knowledge for students and lecturers on audio-related and music technology courses and will prepare the working professionals within the industry for progress and changes to come. *Network Technology for Digital Audio* is part of the Focal Press Music Technology Series.

*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.

**Fundamentals of Data Communication Networks** - Oliver C. Ibe 2017-11-29

What every electrical engineering student and technical professional needs to know about data exchange across networks. While most electrical engineering students learn how the individual components that make up

data communication technologies work, they rarely learn how the parts work together in complete data communication networks. In part, this is due to the fact that until now there have been no texts on data communication networking written for undergraduate electrical engineering students. Based on the author's years of classroom experience, *Fundamentals of Data Communication Networks* fills that gap in the pedagogical literature, providing readers with a much-needed overview of all relevant aspects of data communication networking, addressed from the perspective of the various technologies involved. The demand for information exchange in networks continues to grow at a staggering rate, and that demand will continue to mount exponentially as the number of interconnected IoT-enabled devices grows to an expected twenty-six billion by the year 2020. Never has it been more urgent for engineering students to understand the fundamental science and technology behind data communication, and this book, the first of its kind, gives them that understanding. To achieve this goal, the book: Combines signal theory, data protocols, and wireless networking concepts into one text. Explores the full range of issues that affect common processes such as media downloads and online games. Addresses services for the network layer, the transport layer, and the application layer. Investigates multiple access schemes and local area networks with coverage of services for the

physical layer and the data link layer Describes mobile communication networks and critical issues in network security Includes problem sets in each chapter to test and fine-tune readers' understanding Fundamentals of Data Communication Networks is a must-read for advanced undergraduates and graduate students in electrical and computer engineering. It is also a valuable working resource for researchers, electrical engineers, and technical professionals.

*Monotonic Optimization in Communication and Networking Systems* - Ying Jun Zhang 2013-09-13

Monotonic Optimization in Communication and Networking Systems provides a succinct and accessible introduction to monotonic optimization, including formulation skills and solution algorithms. Through several application examples, it illustrates modeling techniques and algorithm details of monotonic optimization in various scenarios.

**Data Communication and Networking: A Practical Approach** - Massoud Moussavi 2011-12-05

Data Communication and Networking, First Edition provides a solid, thorough overview of data communications and networking for Engineering Technology programs. This text covers information for one or more courses spanning digital communication systems, computer communication and networks, and data communications. It is specifically written and

designed for engineering and engineering technology learners by using a systematic and visual approach with abundant tables, illustrations, and practical examples making it easy for students to comprehend concepts. Content begins with data communication, signal conversion and issues in data transmission. Each chapter includes an introduction, summary of key information, as well as practice questions and problems with answers. The text also includes coverage of network and network standards, Ethernet, network components and Transmission Control and Internets Protocols (TCP/IP). The integration of applications and laboratory experiments are found throughout the text, making Data Communication and Networking, First Edition a one-of-a-kind and practical text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Data Communications and Networking for Manufacturing Industries* - Dario J. Toncich 1993

**Business Data Communications and Networking: A Research Perspective** - Gutierrez, Jairo 2006-12-31

"This book addresses key issues for businesses utilizing data communications and the increasing importance of networking technologies in business; it covers a series of technical advances in the field while

highlighting their respective contributions to business or organizational goals, and centers on the issues of network-based applications, mobility, wireless networks and network security"--Provided by publisher.

**Data Communications and Computer Networks: A Business User's**

**Approach** - Curt White 2012-01-21

Data communications and computer networks are vital in today's business world. DATABASE COMMUNICATIONS AND COMPUTER NETWORKS, 7th Edition balances technical and practical everyday aspects of data communications for future business managers, computer programmers, and system designers needing a thorough understanding of basic features, operations, and limitations of different types of computer networks. The Seventh Edition retains many of the elements that made past editions so popular, including readability and coverage of the most current technologies. This book offers full coverage of wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, and error detection and correction. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Communication Networks** - Alberto Leon-Garcia 2006

. This book is designed for introductory one-semester or one-year courses in communications networks in upper-level undergraduate programs. The

second half of the book can be used in more advanced courses. As prerequisites the book assumes a general knowledge of computer systems and programming, and elementary calculus. The second edition expands on the success of the first edition by updating on technological changes in networks and responding to comprehensive market feedback..

Computer Networking Problems and Solutions - Russ White 2017-12-06

Master Modern Networking by Understanding and Solving Real Problems  
Computer Networking Problems and Solutions offers a new approach to understanding networking that not only illuminates current systems but prepares readers for whatever comes next. Its problem-solving approach reveals why modern computer networks and protocols are designed as they are, by explaining the problems any protocol or system must overcome, considering common solutions, and showing how those solutions have been implemented in new and mature protocols. Part I considers data transport (the data plane). Part II covers protocols used to discover and use topology and reachability information (the control plane). Part III considers several common network designs and architectures, including data center fabrics, MPLS cores, and modern Software-Defined Wide Area Networks (SD-WAN). Principles that underlie technologies such as Software Defined Networks (SDNs) are considered throughout, as solutions to problems faced by all networking technologies. This guide is



ideal for beginning network engineers, students of computer networking, and experienced engineers seeking a deeper understanding of the technologies they use every day. Whatever your background, this book will help you quickly recognize problems and solutions that constantly recur, and apply this knowledge to new technologies and environments.

Coverage Includes · Data and networking transport · Lower- and higher-level transports and interlayer discovery · Packet switching · Quality of Service (QoS) · Virtualized networks and services · Network topology discovery · Unicast loop free routing · Reacting to topology changes · Distance vector control planes, link state, and path vector control · Control plane policies and centralization · Failure domains · Securing networks and transport · Network design patterns · Redundancy and resiliency · Troubleshooting · Network disaggregation · Automating network management · Cloud computing · Networking the Internet of Things (IoT) · Emerging trends and technologies

Wireless and Mobile Data Networks - Aftab Ahmad 2005-08-08

Wireless and Mobile Data Networks provides a single point of knowledge about wireless data technologies, including: \* Comprehensive easy-to understand resource on wireless data technologies \* Includes wireless media, data transmission via cellular networks, and network security \* Provides a single point of knowledge about wireless data \* Focuses on

wireless data networks, wireless channels, wireless local networks, wide area cellular networks and wireless network security An Instructor Support FTP site is available from the Wiley editorial department.

**Data Communications and Networking** - Nagpal D.P. 2011

Data Communications 2 Network Mechanisms. 3 Interfaces, Transmission Media, Multiplexing & Error Detection 4 Local Area Networks (Lan) Architectures 5 Networking And Internetworking Devices 6 Tcp/Ip Architecture 7 Metropolitan Area Networks & Wide Area Networks 8 The Physical And Datalink Layers 9 Ethernet 10 Token Ring 11 Token Bus 12 Fiber Distributed Data Interface (Fddi) 13 Integrated Services Digital Network 14 Broadband—Isdn 15 X.25, Frame Relay And Sonet 16 Asynchronous Transfer Mode (Atm) 17 Network Layer 18 Transport Layer 19 Application Layer Services 20 Upper Osi Layers 21 Local Area Network Management 22 Internet Protocol Version 6: Ipv6 23 Ipv6 Essential Functions And Services 24 Network Security Appendix A Quick Reference (Important Points To Be Remember) Appendix B Practice Set (Multiple Choice Questions) Appendix C Acronyms Appendix D Glossary Appendix E References

**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.

*FCS Data Communication and Networking L4 - 2009*

Business Data Communications and Networking - Jerry FitzGerald

2020-12-03

*Business Data Communications and Networking*, 14th Edition presents a classroom-tested approach to the subject, combining foundational concepts, practical exercises, and real-world case studies. The text provides a balanced, well-rounded presentation of data communications while highlighting its importance to nearly every aspect of modern business. This fully-updated new edition helps students understand how networks work and what is required to build and manage scalable, mobile, and secure networks. Clear, student-friendly chapters introduce, explain, and summarize fundamental concepts and applications such as server architecture, network and transport layers, network design processes and tools, wired and wireless networking, and network security and management. An array of pedagogical features teaches students how to select the appropriate technologies necessary to build and manage networks that meet organizational needs, maximize competitive advantage, and protect networks and data from cybersecurity threats. Discussions of real-world management and technical issues, from improving device performance to assessing and controlling costs, provide students with insight into the daily networking operations of actual businesses.

Communications and Networking - Jun Peng 2010-09-28

This book "Communications and Networking" focuses on the issues at the lowest two layers of communications and networking and provides recent

research results on some of these issues. In particular, it first introduces recent research results on many important issues at the physical layer and data link layer of communications and networking and then briefly shows some results on some other important topics such as security and the application of wireless networks. In summary, this book covers a wide range of interesting topics of communications and networking. The introductions, data, and references in this book will help the readers know more about this topic and help them explore this exciting and fast-evolving field.

**Introduction to Data Communications and Networking** - Behrouz A.

Forouzan 1998

This is a thorough introduction to the concepts underlying networking technology, from physical carrier media to protocol suites (for example, TCP/IP). The author includes historical material to show the logic behind the development of a given mechanism, and also includes comprehensive discussions of increasingly important material, such as B-ISDN (Broadband Integrated Services Digital Network) and ATM (Asynchronous Transmission Mode).

Smart Grid Communications and Networking - Ekram Hossain 2012-05-24

This one-stop reference provides the state-of-the-art theory, key strategies, protocols, deployment aspects, standardization activities and experimental

studies of communication and networking technologies for the smart grid. Expert authors provide all the essential information researchers need to progress in the field and to allow power systems engineers to optimize their communication systems.

**Data Communications and Networking** - Behrouz A. Forouzan 2007

Annotation As one of the fastest growing technologies in our culture today, data communications and networking presents a unique challenge for instructors. As both the number and types of students are increasing, it is essential to have a textbook that provides coverage of the latest advances, while presenting the material in a way that is accessible to students with little or no background in the field. Using a bottom-up approach, Data Communications and Networking presents this highly technical subject matter without relying on complex formulas by using a strong pedagogical approach supported by more than 700 figures. Now in its Fourth Edition, this textbook brings the beginning student right to the forefront of the latest advances in the field, while presenting the fundamentals in a clear, straightforward manner. Students will find better coverage, improved figures and better explanations on cutting-edge material. The "bottom-up" approach allows instructors to cover the material in one course, rather than having separate courses on data communications and networking

**Web-Based Multimedia Advancements in Data Communications and**

**Networking Technologies** - Sridhar, Varadharajan 2012-08-31

"This book highlights comprehensive research that will enable readers to understand, manage, use, and maintain business data communication networks more effectively"--Provided by publisher.

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

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

"Data Communications and Networking, 3/e" provides a comprehensive and current introduction to networking technologies. The book is accessible to students from all backgrounds and uses hundreds of figures to visually represent concepts. The new edition has been completely updated to reflect the constantly changing world of network technologies. Enhanced coverage of bluetooth, wireless, satellites, as well as four new chapters on security have been added. The third edition has transitioned from using the 7-layer OSI model to the 5-layer Internet Model. More time is spent on TCP/IP in the new organization. Forouzan's book continues to be supported by an On-line Learning Center (OLC) that contains many extra resources for students and instructors. Some of the features include PowerPoints, solutions, self-quizzing, and Flash animations that illustrate concepts.

**Handbook of Business Data Communications** - Hossein Bidgoli 2000-08-08

Do you need a one-volume lesson about business applications of the Internet and other computer-based hardware and software? This book provides comprehensive coverage of four major areas: The Internet and Data Communications Basics, Popular Types of Networks, Design, Implementation, and Management Issues in a Network Environment, and Data Communication and Internet Applications. The Handbook of Business Data Communications looks briefly at the major corporations working in each category. In addition to practical examples, short case studies, and summaries of emerging issues in data communications, Professor Bidgoli discusses personal, social, organizational, and legal issues surrounding the use of networks and business software. Easy to use, balanced, and up-to-date, the Handbook has both answers and insights into future trends in business data communications. Key Features \* An industry profile begins each chapter, providing readers with ways to learn more about the products they use \* Numerous case studies of businesses throughout the book highlight applications topics \* Includes balanced presentations of current and emerging technologies as well as useful discussions of security issues and measures \* Presents thorough examinations of the Internet and intranets/extranets \* Social, organizational, and legal materials provide context for data communications information \* Summaries and

review questions reinforce the aims of each chapter

**Fundamentals of Communications and Networking** - Michael G. Solomon

2014-08-08

Today's networks are required to support an increasing array of real-time communication methods. Video chat, real-time messaging, and always-connected resources put demands on networks that were previously unimagined. The Second Edition of *Fundamentals of Communications and Networking* helps readers better understand today's networks and the way they support the evolving requirements of different types of organizations. It discusses the critical issues of designing a network that will meet an organization's performance needs and discusses how businesses use networks to solve business problems. Using numerous examples and exercises, this text incorporates hands-on activities to prepare readers to fully understand and design modern networks and their requirements. Key Features of the Second Edition: - Introduces network basics by describing how networks work - Discusses how networks support the increasing demands of advanced communications - Illustrates how to map the right

technology to an organization's needs and business goals - Outlines how businesses use networks to solve business problems, both technically and operationally.

*SNA* - James Martin 1987

**Business Data Communications** - William Stallings 2009

*Business Data Communications*, 6/e, covers the fundamentals of data communications, networking, distributed applications, and network management and security. Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff, structuring his text around requirements, ingredients, and applications. All of the material has been updated for the latest technologies and developments in the field, including: specifications of WiFi/IEEE 802.11 wireless LANs, including 802.11n. IP; performance metrics and service level agreements (SLAs); Gigabit Ethernet and 10-Gbps Ethernet standards; New unified communications concepts; expanded, enhanced security material; New online animations illustrate key functions and algorithms in OS design. Appropriate for professionals interested in business data communications.