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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.

Data and Computer Communications William Stallings 2007 This timely revision of an all-time best-seller in the field features the clarity and scope of a Stallings classic. This comprehensive volume provides the most up-to-date coverage of the essential topics in data communications, networking, Internet technology and protocols, and standards all in a convenient modular format. Features updated coverage of multimedia, Gigabit and 10 Gbps Ethernet, WiFi/IEEE 802.11 wireless LANs, security, and much more. Ideal for professional reference or self-study. For Product Development personnel, Programmers, Systems Engineers, Network Designers and others involved in the design of data communications and networking products.

Data Communications and Computer Networks Curt M. White 2002 This complete introduction to data communications is written to bring a fresh, readable, business-oriented perspective to the technology that lies at the heart of the booming telecommunications revolution. Providing a solid background of fundamentals to tomorrow's information systems professionals, this survey of data communications keeps a balance between the super-technical and the watered-down, providing a solid understanding not only of how things work, but how they can be applied to create business solutions. An accompanying interactive CD-ROM, integrates tightly with the book and provides 11 modules that make concepts come to life and allow hands-on practice of skills. This new, updated second edition features even more remediation at the end of each chapter and coverage of cutting-edge technologies such as Bluetooth, highly elliptical orbiting satellites, V.92, code division multiplexing, and wireless technologies.

Intelligent Methods in Computing, Communications and Control Ioan Dzitac 2020-07-27 This book presents the proceedings of the International Conference on Computers Communications and Control 2020 (ICCCC2020), covering topics such as theory for computing and communications, integrated solutions in computer-based control, computational intelligence and soft computing, decision-making and support systems. The ICCCC was founded in Romania in 2006, and its eight editions have featured respected keynote speakers and leading computer scientists from around the globe.

Data and Computer Communications Prentice Hall PTR 2000-01-01

Data and Computer Communications William Stallings 2013-12 Two-time winner of the best Computer Science and Engineering textbook of the year award from the Textbook and Academic Authors Association For a one/two-semester courses in Computer Networks, Data Communications, and Communications Networks in CS, CIS, and Electrical Engineering departments. With a focus on the most current technology and a convenient modular format, this best-selling text offers a clear and comprehensive survey of the entire data and computer communications field. Emphasizing both the fundamental principles as well as the critical role of performance in driving protocol and network design, it explores in detail all the critical technical areas in data communications, wide-area networking, local area networking, and protocol design.

Advances in Computer Communications and Networks From Green, Mobile, Pervasive Networking to Big Data Computing Kewei Sha 2022-09-01 Recent developments in computer communications and networks have enabled the deployment of exciting new areas such as Internet of Things and collaborative big data analysis. The design and implementation of energy efficient future generation communication and networking technologies also require the clever research and development of mobile, pervasive, and large-scale computing technologies. Advances in Computer Communications and Networks: from Green, Mobile, Pervasive Networking to Big Data Computing studies and presents recent advances in communication and networking technologies reflecting the state-of-the-art research achievements in novel communication technology and network optimization. Technical topics discussed in the book include: Data Center NetworksMobile Ad Hoc NetworksMultimedia NetworksInternet of ThingsWireless

SpectrumNetwork Optimization.This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial, master, Ph.D. students in computer science, computer engineering, electrical engineering and telecommunication systems.

Computer Communications R. COLE 2013-12-19 The subject of computer communications is changing very rapidly. Improvements in terminal access, aligned with the development of timesharing, has brought hands-on experience to a large number of non specialist users. Computer networks have made available vast computing resources and data banks to these users. This book is for anyone familiar with using computers who wishes to understand the techniques used in computer communications. It is also an introduction to the architecture of present day computer communication systems. I would like to thank Roland lbbett, Steve Treadwell, Peter Kirstein and Del Thomas for their invaluable advice and encouragement. My thanks also to Malcolm Stewart and the staff at Macmillan. The late Gareth Pugh encouraged my interest in computer communications and provided the opportunity to develop the material for this book. The text was formatted on a UNIX computer system: I am grateful to Professor Kirstein for permission to use this system. I am indebted to NEC Telecommunications Europe for the use of a spinwriter printer on which the master copy was produced. Finally, no amount of words can express my debt to Jo this project and Rosemary for patiently bearing with over the last three years.

Data and Computer Communications Brian W. Kernighan 2003-12-17

Data and Computer Communications William Stallings 2015-01-23 For a one/two-semester courses in Computer Networks, Data Communications, and Communications Networks in CS, CIS, and Electrical Engineering departments. With a focus on the most current technology and a convenient modular format, this best-selling text offers a clear and comprehensive survey of the entire data and computer communications field. Emphasising both the fundamental principles as well as the critical role of performance in driving protocol and network design, it explores in detail all the critical technical areas in data communications, wide-area networking, local area networking, and protocol design. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Data Communications and Computer Networks: A Business User's Approach Curt White 2010-03-09 Data communications and computer networks are becoming increasingly more important--today's business world could not function without either. DATABASE COMMUNICATIONS AND COMPUTER NETWORKS offers a balance between technical and practical aspects of data communication. Business managers, computer programmers, system designers, and home computer users alike need a through understanding of the basic features, operations, and limitations of different types of computer networks. DATA COMMUNICATIONS AND COMPUTER NETWORKS introduces concepts that help the reader achieve an in-depth understanding of the often complex topic of data communications and computer networks by balancing the more technical aspects and the everyday practical aspects. The sixth edition retains many of the elements that made the fifth edition 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 expanded coverage of 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.

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 and Computer Communications (tenth Edition) William Stallings 2018

Business Data Communication 8th Edition with Computer Networks Set Jerry FitzGerald 2005-09-01

Applied Data Communications and Networks B. Buchanan 1996-07-31 The usage of data communications and computer networks are ever in creasing. It is one of the few technological areas which brings benefits to most of the countries and the peoples of the world. Without it many industries could not exist. It is the objective of this book to discuss data communications in a readable form that students and professionals all over the world can understand. As much as possible the text uses dia grams to illustrate key points. Most currently available data communications books take their view point from either a computer scientists top-down approach or from an electronic engineers bottom-up approach. This book takes a practical ap proach and supports it with a theoretical background to create a textbook which can be used by electronic engineers, computer engineers, computer scientists and industry professionals. It discusses most of the current and future key data communications technologies, including: • Data Communications Standards and Models; • Local Area Networks (Ethernet, Token Ring and FDDI); • Transmission Control ProtocollInternet Protocol (TCPIIP); • High-level Data Link Control (HDLC); • X.25 Packet-switching; • Asynchronous Communications (RS-232) and Modems; • Pulse Coded Modulation (PCM); • Integrated Digital Services Network (ISDN); • Asynchronous Transfer Mode (ATM); • Error Control; • X-Windows. The chapters are ordered in a possible structure for the presentation of the material and have not been sectioned into data communications areas.

Data Communications & Computer Networks Curt M. White 2015

Reference Data for Engineers Mac E. Van Valkenburg 2001-09-26 This standard handbook for engineers covers the fundamentals, theory and applications of radio, electronics, computers, and communications equipment. It provides information on essential, need-to-know topics without heavy emphasis on complicated mathematics. It is a "must-have" for every engineer who requires electrical, electronics, and communications data. Featured in this updated version is coverage on intellectual property and patents, probability and design, antennas, power electronics, rectifiers, power supplies, and properties of materials. Useful information on units, constants and conversion factors, active filter design, antennas, integrated circuits, surface acoustic wave design, and digital signal processing is also included. This work also offers new knowledge in the fields of satellite technology, space communication,

microwave science, telecommunication, global positioning systems, frequency data, and radar.

Computer Organization & Architecture 7e Stallings 2008-02

Computer Communications William Stallings 1992

Computers Communications and Information Sarah Hutchinson Clifford 2000 Computers, Communication, and Information, 7/e Comprehensive Edition continues the tradition of providing a more rigorous, technology-oriented approach to learning computing concepts. The vision of this text is for future business professionals who will need to possess a clear understanding of technology and the ability to utilize it effectively in a career setting where it will be widely used.

Data and Computer Communications William Stallings 1996

Data and Computer Communications Gurdeep S. Hura 2001-03-28 The protocols and standards for networking are numerous and complex. Multivendor internetworking, crucial to present day users, requires a grasp of these protocols and standards. Data and Computer Communications: Networking and Internetworking, a comprehensive text/reference, brings clarity to all of the complex issues involved in networking activity, providing excellent instruction for students and an indispensable reference for practitioners. This systematic work answers a vast array of questions about overall network architecture, design, protocols, and deployment issues. It offers a practical, thorough treatment of the applied concepts of data and computer communication systems, including signaling basics, transmission of digital signals, and layered architecture. The book features in-depth discussions of integrated digital networks, integrated services digital networks, and high-speed networks, including currently evolving technologies, such as ATM switching, and their applications in multimedia technology. It also presents the state-of-the-art in Internet technology, its services, and implementations. The balance of old and new networking technologies presents an appealing set of topics for both undergraduate students and computer and networking professionals. This book presents all seven layers of OSI-based networks in great detail, covering services, functions, design issues, interfacing, and protocols. With its introduction to the basic concepts and practical aspects of the field, Data and Computer Communications: Networking and Internetworking helps you keep up with the rapidly growing and dominating computer networking technology.

Data Communications and Networking Behrouz A. Forouzan 2002-07 Data Communications and Networking provides an introduction to the concepts that underlie networking technology. This book is an extensive and comprehensive introduction to networking that does not require its readers to have a lot of mathematical background.

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.

"Data and Computer Communications" with "Operating Systems" Willliam Stallings 2004-01-08

"Data and Computer Communications" with "Operating Systems" (Ie) and "C Programming Language" Gary J. Nutt 2004-01-08

Fundamentals of Wireless Communication David Tse 2005-05-26

This textbook takes a unified view of the fundamentals of wireless communication and explains cutting-edge concepts in a simple and intuitive way. An abundant supply of exercises make it ideal for graduate courses in electrical and computer engineering and it will also be of great interest to practising engineers.

DATA COMMUNICATIONS AND COMPUTER NETWORKS PRAKASH C. GUPTA 2006-01-01 Primarily intended as a text for undergraduate courses in Electronics and Communications Engineering, Computer Science, IT courses, and Computer Applications, this up-to-date and accessible text gives an indepth analysis of data communications and computer networks in an easy-to-read style. Though a new title, it is a completely revised and fully updated version of the author's earlier book Data Communications. The rapid strides made during the last decade in the fields of data communication and networking, and the close link between these two subjects have prompted the author to add several chapters on computer networks in this text. The book gives a masterly analysis of topics ranging from the principles of data transmission to computer networking applications. It also provides standard protocols, thereby enabling to bridge the gap between theory and practice. What's more, it correlates the network protocols to the concepts, which are explained with the help of numerous examples to facilitate students' understanding of the subject. This well-organized text presents the latest developments in the field and details current topics of interest such as Multicasting, MPLS, IPv6, Gigabit Ethernets, IPSec, SSL, Auto-negotiation, Wireless LANs, Network security, Differentiated services, and ADSL. Besides students, the practicing professionals would find the book to be a valuable resource.

Study Companion James F. Kurose 2007 Appropriate for a first course on computer networking, this textbook describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

Data Communication and Computer Networks Jill West 2021-08-12 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.

Mathematics for Future Computing and Communications Liao Heng 2021-12-16 A panorama of new ideas in mathematics that are driving innovation in computing and communications.

BUSINESS DATA COMMUNICATIONS AND NETWORKING, 8TH ED Jerry Fitzgerald 2007-08-16 This revised edition with new technologies, new applications, and new examples, offers balanced coverage of the technical and managerial aspects of data communications to help understand how networks operate and how to successfully apply them. It features a chapter on wireless LANS, an expansion of the security chapter to include more on security design and new technologies, and more coverage of technology design material on network design including a selection of technologies and best practices for network design. · Introduction · Application Layer · Physical Layer · Data Link Layer · Network and Transport Layers · Local Area Networks · Wireless Local Area Networks · Backbone Networks · Metropolitan and Wide Area Networks · The Internet · Network Management · Network Security · Network Design

Data Communications, Computer Networks, and Open Systems Fred Halsall 1996 Fully revised and updated, the fourth edition includes

new chapters on broadband multi-service networks, a revamped chapter with extended and updated coverage of FDDI, and a new section on Fast Ethernet, covering 100BaseT, 100Base X, wireless LANs, and several additional candidate technologies.

A Practical Guide to Computer Communications and Networking Richard J. Deasington 1982

Advanced Data Communications and Networks Bill Buchanan 2023-08-11 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.

Data and Computer Communications William Stallings 2000

Computer Communications and Networking Technologies Michael A. Gallo 2002 Computer communications and networking technologies.

Data Communications and Computer Networks: ITL ESL Data Communications and Computer Networks is designed as quick reference guide for important undergraduate computer courses. The organized and accessible format of this book allows students to learn the important concepts in an easy-to-understand,

Business Data Communications and Networking Jerry FitzGerald 2005 Access the latest technologies in data communications and networking! The rapid integration of voice and data... Terabit and pedabit speeds on the horizon... The future of data communications and networking is being shaped right now. If you want to stay on the cutting edge of these exciting developments, you'll not only need to keep up with new technologies, you'll also need to build a solid foundation of fundamental data communications and networking concepts. With FitzGerald and Dennis's Business Data Communications and Networking, 8th Edition, you can do both. Updated and revised with new technologies, new applications, and new examples, this Eighth Edition offers balanced coverage of the technical and managerial aspects of data communications to help you understand how networks operate and how to successfully apply them. New Features New chapter on wireless LANs (Chapter 7) discusses WLAN topology, media access control, and transmission of 802.11a, b, and g, as well as BlueTooth. A thoroughly revised security chapter (Chapter 11) includes new information on rapidly emerging threats, as well as more information on important controls. The appendices provide more detailed discussions of IP telephony and spanning tree protocol. Includes best practices recommendations for designing LANs, Backbones, MANs, WANs, and WLANs, based on effective data rates. Additional mini-cases in each chapter show how real organizations are using telecommunications and networking. New A Day in the Life boxes highlight practical tips and career information. New online animations help you visualize basic data communications processes. Access the animations with the registration code included in this text.