

Data Communication And Networking

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2024-02-29

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Introduction To Data Communication And Networking Jones & Bartlett Publishers

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 Communication And Computer Networks Tata McGraw-Hill Education

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.

DATA COMMUNICATIONS AND COMPUTER NETWORKS Springer Science & Business Media

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.

Advanced Communication and Networking South Western College Publishing

This volume constitutes the refereed proceedings of the 3rd International Conference on Advanced Communication and Networking, ACN 2011, held in Brno, Czech Republik, in June 2011. The 57 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers focus on the various aspects of progress in Advanced Communication and Networking with computational sciences, mathematics and information technology and address all current issues of communication basic and infrastructure, networks basic and management, multimedia application, image, video, signal and information processing.

For Fixed and Wireless Networks Vikas Publishing House

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 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.

Data Communications and Computer Networks Cengage Learning

This book provides a clear and easy to follow treatment of communications and networking. It is written specifically for undergraduates who have no previous experience in the field. The author

takes a step-by-step approach, with many examples and exercises designed to give the reader experience and increase confidence by using and designing communications systems. Written by a lecturer with many years' experience teaching undergraduate programmes, the text takes the reader through the essentials of networking and provides a comprehensive, reliable and thorough treatment of the subject. The book is also accessible for business professionals.

Understanding Data Communications and Networks Data Communications and Networking 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 COMMUNICATION AND COMPUTER NETWORKS PHI Learning Pvt. Ltd.

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.

Handbook of Fiber Optic Data Communication Cengage Learning

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. The book, in its second edition introduces a full chapter on Quality of Service, highlighting the meaning, parameters and functions required for quality of service. This book is recommended in Kaziranga University, Nagaland, IIT Guwahati, Assam and West Bengal University of Technology (WBUT), West Bengal for B.Tech. Key Features • The book is self-contained and student friendly. • The sequential organization lends flexibility in designing courses on the subject. • Large number of examples, diagrams and tables illustrate the concepts discussed in the text. • Numerous exercises (with answers), a list of acronyms, and references to protocol standards.

Data Communications and Computer Networks: A Business User's Approach John Wiley & Sons

Data Communication and Networking, International 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.

Data Communications Networking Devices Course Technology Ptr

This book is designed and developed assuming little or no technical background on part of the reader. The book therefore first introduces the philosophy of data communications covering signal propagation and information encoding. It then proceeds to cover various technologies, OSI model, protocols, network architectures, internetworking concepts and TCP/IP. All this makes the book ideally suited for the first course on Data Communications and Networks.

DATA COMMUNICATIONS AND COMPUTER NETWORKS PHI Learning Pvt. Ltd.

Data communications and computer networks are vital in today's business world. Whether your career entails business management, computer programming, system design, or a related area, FUNDAMENTALS OF NETWORKING AND DATA COMMUNICATIONS, 7E, International Edition will give you the thorough understanding you need 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, coverage of the most current technologies, and a balanced presentation of both technical and practical everyday aspects of data communications. This book offers full coverage of wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, and error detection and correction.

From Fundamentals to Networking John Wiley & Sons

Data Communications Networking Devices Operation, Utilization and LAN and VAN 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/>

Data Communication Principles Huga Media

Data Communication And Computer Networks Deals With Various Aspects Of The Subject Vis-À-Vis The Emerging Trends In Network-Centric Information Technology. It Provides The Reader With An In-Depth Framework Of The Fundamental Concepts. Networking Involves Understanding Data Communications Academic Press

For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the *Telecommunications and Data Communications Handbook*, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon.

Data Communications and Computer Networks: A Business User's Approach Springer Science & Business Media

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.

Business Data Communications McGraw-Hill College

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.

Data and Computer Communications Purdue University Press

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.

ISE Data Communications and Networking with TCP/IP Protocol Suite Simon & Schuster Books For Young Readers

Introduction, datacommunications, information theory, introduction to local area networks. Internet protocols ...

An Introduction Pearson Education India

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.