

Data Communications And Networking

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Data Communications and Networking - Behrouz A. Forouzan 2013-06

Data Communications Networking - Behrouz Forouzan 2006-02-09

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.

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

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Advanced Data

Communications and Networks

- Bill Buchanan 2018-06-28

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.

Business Data Communications and Networking - Jairo

Gutiérrez 2007-01

The increasing business use of wireless and mobile technologies on a variety of devices has accelerated the need for a better understanding of the technologies involved. *Business Data Communications and Networking: A Research Perspective* addresses the key issues for businesses utilizing data communications and the increasing importance of networking technologies in business. *Business Data Communications and Networking: A Research Perspective* 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.

The Handbook of Data Communications and Networks - William Buchanan 2004

02. 2 Network topologies 744
02. 3 Token ring 747 02. 4 Ethernet 749 02. 5 LAN components 752 02. 6 Cabling standards 762 02. 7 Important networking definitions 769 03 Ethernet 771 03. 1 Introduction 771 03. 2 IEEE standards 772 03. 3 Ethernet-media access control (MAC) layer 773 03. 4 IEEE 802. 2 and Ethernet SNAP 775 03. 5 OSI and the IEEE 802. 3 standard 777 03. 6 Ethernet types 780 03. 7 Twisted-pair hubs 781 03. 8 100 Mbps Ethernet 782 03. 9 Gigabit Ethernet 787 03. 10 Bridges 792 03. 11 ARP 793 03. 12 RARP 797 03. 13 Spanning-Tree Protocol 798 03. 14 Additional 799 03. 15 Network interface card design BOO 03. 16 82559-based Ethernet 804 03. 17 Comparison of fast Ethernet with other technologies 806 04 Network

Design, Switches and vLANs 807 04. 1 Introduction 807 04. 2 Network design 807 04. 3 Hierarchical network design 809 04. 4 Switches and switching hubs 814 04. 5 vLANs 818 05 Token Ring 825 05. 1 Introduction 825 05. 2 Operation 825 05. 3 Token Ring-media access control (MAC) 826 05. 4 Token Ring maintenance 828 05. 5 Token Ring multistation access units (MAUs) 829 05. 6 Cabling and connectors 830 05. 7 Repeaters 830 05. 8 Jitter suppression 831 06 FDDI 833 06. 1 Introduction 833 06. 2 Operation 834 06. 3 FOOL layers 834 06. 4 SMT protocol 836 06. 5 Physical connection management 836 06.

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 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

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DATA COMMUNICATION AND COMPUTER

NETWORKS - AJIT PAL

2013-11-02

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, the book provides a comprehensive coverage of the subject. Basic elements of communication such as data, signal and channel alongwith their characteristics such as bandwidth, bit internal and bit rate have been explained. Contents related to guided and unguided transmission media, Bluetooth wireless technology, developed for Personal Area Network (PAN) and issues related to routing covering popular routing algorithms namely RIP, OSPF and BGP, have been introduced in the book. Various aspects of data

link control alongwith their application in HDLC network and techniques such as encoding, multiplexing and encryption/decryption are presented in detail.

Characteristics and implementation of PSTN, SONET, ATM, LAN, PACKET RADIO network, Cellular telephone network and Satellite network have also been explained. Different aspects of IEEE 802.11 WLAN and congestion control protocols have also been discussed in the book. Key Features • Each chapter is divided into section and subsection to provide flexibility in curriculum design. • The text contains numerous solved examples, and illustrations to bring clarity to the subject and enhance its understanding. • Review questions given at the end of each chapter, are meant to enable the teacher to test student's grasping of the subject.

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

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Data Communication and Networking - Massoud Moussavi 2012

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 Internet 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 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.

Handbook of Data Communications and Networks

- William Buchanan 1999

The object of this book is to cover most of the currently relevant areas of data communications and networks. These include:

Communications protocols (especially TCP/IP) Networking (especially in Ethernet, Fast Ethernet, FDDI and ATM) Networking operating systems (especially in Windows NT,

Novell NetWare and UNIX) Communications programs (especially in serial communications, parallel communications and TCP/IP) Computer hardware (especially in PC hardware, serial communications and parallel communication). The book thus splits into 15 different areas: General data compression Video, images and sound Error coding and encryption TCP/IP, WWW, Internets and Intranets Electronic Mail HTML Java Communication Programs Network Operating Systems LANs/WANs Serial Communications Parallel Communications Local Communications Routing and Protocols Cables and connectors.

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

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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.

Telecommunications and Data Communications Handbook - Ray Horak
2012-11-19

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.

Communications and Networking - Honghao Gao
2020-02-26

This two volume set constitutes the refereed proceedings of the 14th EAI International Conference on Communications and Networking, ChinaCom 2019, held in November/December 2019 in Shanghai, China. The 81 papers presented were carefully selected from 162 submissions. The papers are organized in topical sections on Internet of Things (IoT), antenna, microwave and cellular communication, wireless communications and networking, network and information security, communication QoS, reliability and modeling, pattern recognition and image signal processing, and information processing.

Understanding Data Communications and Networks - William A. Shay
2004

Thoroughly updated for currency, this book offers a clear presentation of data

communications and network fundamentals. Featuring a wide array of applications, the book fully explains concepts and supports them with case studies or descriptions of specific software and other products. Students learn the protocols of analog and digital signals, data compression, data integrity, data security, local area networks, asynchronous transfer mode (ATM), and much more. The third edition includes important information on the latest developments of the Internet.

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

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world can understand. As much as possible the text uses diagrams 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 approach 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 and Networking - Behrouz A. Forouzan 2001-07

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

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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.

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

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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.

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).

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.

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.

Fundamentals of Data Communication Networks -

Oliver C. Ibe 2017-12-20

What every electrical engineering student and technical professional needs to know about data exchange across networks While most electrical engineering students

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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 Comm N Netwkg 2/E

Update - Behrouz A. Forouzan
2003

Data Communication And Computer Networks -

Rajneesh Agarwal 2009-11-01
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

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

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Communications and Networking - Jun Peng
2010-09-28

This book "Communications and Networking" focuses on

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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 Communication And Networking](#) - Tomasi 2007-09

Introduction to Data Communications and Networking - Wayne Tomasi 2005

This text provides a comprehensive coverage of

data communications fundamentals, telephone system operation, local area networks, internetworking, and Internet communications. Each chapter contains numerous examples emphasizing the most important concepts presented. Questions and problems are included at the end of each chapter, and answers to selected problems are provided at the end of the book. Significant material is provided on the following:

Analog and digital electronic communications systems
Metallic and optical fiber cable systems
Digital transmission and multiplexing
Wireless communications systems, including free-space electromagnetic wave preparation
Wireline, cellular, and PCS telephone theory
Codes, data formats, error detection and correction, modems, UARTs and USARTs, and serial interfaces
Data-link protocols, including XMODEM, YMODEM, KERMIT, SDLC, and HDLC
Transmission formats, LAN topologies, and basic internetworking devices
IEEE

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802 Project including access methodologies, and MAC and LLC sublayers IEEE 802.3 Ethernet and DIX Ethernet II IP addressing, subnets, supernetworks, and IP classless and classful addressing hierarchies Layer 3 networking protocols, such as ARP, IPv4, and ICMP; and Layer 4 transport protocols, such as UDP and TCP Internet Protocol version 6 (IPv6) and Internal Control Management Protocol version 6 (ICMPv6) Configuration and domain name protocols, including DHCP and DNS Application layer protocols, including Telnet, FTP TFTP, SMTP, POP, and HTTP Integrated Services Digital Network and Digital Subscriber Loop Broadband WAN access technologies such as X.25, Frame Relay, and ATM

Telecommunications and Networking - Udo W. Pooch
2018-05-04

As the dividing line between traditional computing science and telecommunications quickly becomes blurred or disappears in today's rapidly changing environment, there is

an increasing need for computer professionals to possess knowledge of telecommunications principles. Telecommunications and Networking presents a comprehensive overview of the interaction and relationship between telecommunications and data processing. The book's early chapters cover basic telecommunications vocabulary, common nomenclature, telecommunications fundamentals, as well as the important relationships among coding, error detection and correction, and noise. Later chapters discuss such topics as switching, timing, topological structures, routing algorithms, and teleprocessing. Other topics covered in detail include specific concerns inherent to computer communications, such as protocols, error detection and correction, network monitoring and security, and system validation. System designers and programmers can no longer be effective simply by understanding the tradeoffs

between hardware and software. Telecommunications and Networking provides both computing professionals and students the fundamental computer communications concepts necessary to function in today's computer industry.

Data and Computer Communications - William Stallings 1988

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.

ASN.1 Complete - John Larmouth 2000

ASN.1 Complete teaches you everything you need to know about ASN.1-whether you're specifying a new protocol or implementing an existing one in a software or hardware development project. Inside, the author begins with an overview of ASN.1's most commonly encountered features, detailing and illustrating standard techniques for using them. He then goes on to apply the same practice-oriented approach to all of the notation's other features, providing you with an easy-to-navigate, truly comprehensive tutorial. The book also includes thorough documentation of both the Basic and the Packed Encoding Rules-indispensable coverage for anyone doing hand-encoding, and a valuable resource for anyone wanting a deeper understanding of how ASN.1 and ASN.1 tools work. The concluding section takes up the history of ASN.1, in

terms of both the evolution of the notation itself and the role it has played in hundreds of protocols and thousands of applications developed since its inception. Features Covers all the features-common and not so common-available to you when writing a protocol specification using ASN.1. Teaches you to read, understand, and implement a specification written using ASN.1. Explains how ASN.1 tools work and how to use them. Contains hundreds of detailed examples, all verified using OSS's ASN.1 Tools package. Considers ASN.1 in relation to other protocol specification standards.

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Data Communications and Networking with TCP/IP

Protocol Suite - Behrouz A.

Forouzan 2021-03

Revised edition of: Data communications and networking.

DATA COMMUNICATIONS AND COMPUTER NETWORKS

- PRAKASH C. GUPTA

2013-11-02

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,

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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 -

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

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Data Communications and Computer Networks -

Michael Duck 2003

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

Data Communications and Networking for

Manufacturing Industries -

Dario J. Toncich 1993