

# Data Communication Network

Oliver C. Ibe

*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

**Fundamentals of Data Communication Networks** Oliver C. Ibe, 2017-11-01 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 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 Communication Principles* Aftab Ahmad, 2007-05-08 *Data Communication Principles for Fixed and Wireless Networks* focuses on the physical and data link layers. Included are examples that apply to a diversified range of higher level protocols such as TCP/IP, OSI and packet based wireless networks. Performance modeling is introduced for beginners requiring basic mathematics. Separate discussion has been included on wireless cellular networks performance and on the simulation of networks. Throughout the book, wireless LANs has been given the same level of treatment as fixed network protocols. It is assumed that readers would be familiar with basic mathematics and have some knowledge of binary number systems. *Data Communication Principles for Fixed and Wireless Networks* is for students at the senior undergraduate and first year graduate levels. It can also be used as a reference work for professionals working in the areas of data networks, computer networks and internet protocols.

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

*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.

*Data Communications and Computer Networks* Michael Duck, Richard Read, 2003 Introduction, datacommunications, information theory, introduction to local area networks. Internet protocols ...

*Data Communications and Distributed Networks* Uyless D. Black, 1993 A practical tutorial which examines the relationships of data communications and distributed networks - with an emphasis on distributed communications protocols, distributed data bases and client-server relationships.

*Communication Networks for Computers* Donald Watts Davies, Derek L. A. Barber, 1973

**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.

*Technical Aspects of Data Communication* John E. McNamara, 2014-05-12 *Technical Aspects of Data Communication*, Third Edition provides information pertinent to the technical aspects of data communication. This book discusses a simple asynchronous interface implemented with a specialized integrated circuit called a UART. Organized into 28 chapters, this edition begins with an overview of the interface standards ranging from the classic EIA-232-D to the EIA-530. This text then describes modems and modem control, with material on high-speed modems and error-correcting modems. Other chapters discuss hardware and software methods. This book discusses as well digital transmission systems and the Integrated Service Digital Network (ISDN). The final chapter deals with local area networks (LANs) and shows how data communication is the key to information and resources sharing in modern networks of personal computers and work stations. This book is intended to be suitable for readers who are about to design a data communication system, are about to purchase a program data communication hardware, or are just interested in learning more about data communication.

**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, 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.

#### **Introduction To Data Communication And Networking** Tomasi,2007-09

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.

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.

*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.

**Data Communications and Networking** Behrouz A. Forouzan,Catherine Ann Coombs,Sophia Chung Fegan,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.

#### **Data Communications & Network** Achyut S. Godbole,2011

**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.

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