

Data Communication And Computer Networks By Ajit Pal

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*Data Communication
 And Computer Networks
 By Ajit Pal*

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EVELYN DIAZ

Data Communication and Computer Networks Prentice Hall

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 telecommunications revolution. Features more end-of-chapter exercises and new coverage of Bluetooth, V.92, and wireless technologies.

Protocols and Techniques for Data Communication Networks CRC Press
 Data and Computer Communications, 10e, is a two-time winner of the best Computer Science and Engineering textbook of the year award from the Textbook and Academic Authors Association. It is ideal

for one/two-semester courses in Computer Networks, Data Communications, and Communications Networks in CS, CIS, and Electrical Engineering departments. This book is also suitable for Product Development personnel, Programmers, Systems Engineers, Network Designers and others involved in the design of data communications and networking products. 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.

Computer Network Architectures and Protocols Huga Media

This is a book about the bricks and mortar out of which are built those edifices that so well characterize late twentieth century industrial society networks of computers and terminals. Such computer networks are playing an increasing role in our daily lives, somewhat indirectly up to now as the hidden servants of banks, retail credit bureaus, airline reservation offices, and so forth, but soon they will become more visible as they enter our offices and homes and directly become part of our work, entertainment, and daily living. The study of how computer networks work is a combined study of communication theory and computer science, two disciplines appearing to have very little in common. The modern communication scientist wishing to work in this area finds himself in suddenly unfamiliar territory. It is no

longer sufficient for him to think of transmission, modulation, noise immunity, error bounds, and other abstractions of a single communication link; he is dealing now with a topologically complex interconnection of such links. And what is more striking, solving the problems of getting the signal from one point to another is just the beginning of the communication process. The communication must be in the right form to be routed properly, to be handled without congestion, and to be understood at the right points in the network. The communication scientist suddenly finds himself charged with responsibility for such things as code and format conversions, addressing, flow control, and other abstractions of a new and challenging kind.

Computer Networks Wokingham, England ; Reading, Mass. : Addison-Wesley
The first book, by the leading experts, on this rapidly developing field with applications to security, smart homes, multimedia, and environmental monitoring Comprehensive coverage of fundamentals, algorithms, design methodologies, system implementation issues, architectures, and applications Presents in detail the latest developments in multi-camera calibration, active and heterogeneous camera networks, multi-camera object and event detection, tracking, coding, smart camera architecture and middleware This book is the definitive reference in multi-camera networks. It gives clear guidance on the conceptual and implementation issues involved in the design and operation of multi-camera networks, as well as presenting the state-of-the-art in hardware, algorithms and system development. The book is broad in scope, covering smart camera architectures, embedded processing, sensor fusion and middleware, calibration and topology, network-based detection and tracking, and applications in distributed and collaborative methods in camera networks. This book will be an ideal reference for university researchers, R&D engineers, computer engineers, and graduate students working in signal and video processing, computer vision, and sensor networks. Hamid Aghajan is a Professor of Electrical Engineering (consulting) at Stanford University. His research is on multi-camera networks for smart environments with application to smart homes, assisted living and well being, meeting rooms, and avatar-based communication and social interactions. He is Editor-in-Chief of Journal of Ambient Intelligence and Smart Environments, and was general chair of ACM/IEEE ICDSC

2008. Andrea Cavallaro is Reader (Associate Professor) at Queen Mary, University of London (QMUL). His research is on target tracking and audiovisual content analysis for advanced surveillance and multi-sensor systems. He serves as Associate Editor of the IEEE Signal Processing Magazine and the IEEE Trans. on Multimedia, and has been general chair of IEEE AVSS 2007, ACM/IEEE ICDSC 2009 and BMVC 2009. The first book, by the leading experts, on this rapidly developing field with applications to security, smart homes, multimedia, and environmental monitoring Comprehensive coverage of fundamentals, algorithms, design methodologies, system implementation issues, architectures, and applications Presents in detail the latest developments in multi-camera calibration, active and heterogeneous camera networks, multi-camera object and event detection, tracking, coding, smart camera architecture and middleware

Data Communications and Computer Networks: A Business User's Approach PHI Learning Pvt. Ltd.

Planning computer - communication networks; System design for computer networks; Optimal file allocation in a computer network; Scheduling, queueing, and delays in time-shared systems and computer networks; Common-carrier data communication; Interfacing and data concentration; Asynchronous time-division multiplexing systems; Multiple-access communications for computer nets; Regulatory policy and future data-transmission services; Economic considerations in computer-communication systems; The dartmouth time sharing network; Exploratory research on netting at IBM; The ARPA network.

Data Communication and Computer Networks Academic Press

As the world grows increasingly interconnected, data communications has become a critical aspect of business operations. Wireless and mobile technology allows us to seamlessly transition from work to play and back again, and the Internet of things has brought our appliances, vehicles, and homes into the network; as life increasingly takes place online, businesses recognize the opportunity for a competitive advantage. Today's networking professionals have become central to nearly every aspect of business, and this book provides the essential foundation needed to build and manage the scalable, mobile, secure networks these businesses require. Although the technologies evolve rapidly, the

underlying concepts are more constant. This book combines the foundational concepts with practical exercises to provide a well-grounded approach to networking in business today. Key management and technical issues are highlighted and discussed in the context of real-world applications, and hands-on exercises reinforce critical concepts while providing insight into day-to-day operations. Detailed technical descriptions reveal the tradeoffs not presented in product summaries, building the analytical capacity needed to understand, evaluate, and compare current and future technologies.

Data Communication Principles Springer Nature

Introduction, datacommunications, information theory, introduction to local area networks. Internet protocols ... [Data and Computer Communications](#) PHI Learning Pvt. Ltd.

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 Communications and Networking Springer Science & Business Media

This book presents best selected research papers presented at the International Conference on Computer Networks, Big Data and IoT (ICCBI 2020), organized by Vaigai College Engineering, Madurai, Tamil Nadu, India, during 15-16 December 2020. The book covers original papers on computer networks, network protocols and wireless networks, data communication technologies and network security. The book is a valuable resource and reference for researchers, instructors, students, scientists, engineers, managers and industry practitioners in those important areas.

Business Data Communications and Networking Prentice Hall Direct

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 BookRix

The text book is written in simple and easily understandable language. This book can be used as a self-study guide for computer science students. I made (Dr. Prakash Kumar) sincere attempts to analyse every important topic completely and put before the reader of this book in the best presentable form. This book is uniquely different from many other books in a number of ways. Some of the unique features of the book are as under: Beginner to advanced approach to the subject. Simple and easy understandable

language. Include examples to illustrate concept. Systematic and sequential arrangement of different topics. It can be used for one semester or one quarter course. Eminently suitable for self study. Detailed study of important topics such as Communication system, OSI Model, Ethernet LAN, Network security and Cryptography.

DATA COMMUNICATIONS AND COMPUTER NETWORKS Wiley Global Education

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 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 Protocol/Internet Protocol (TCP/IP); • 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.

Fundamentals of Data Communication Networks John Wiley & Sons

Database and Data Communication Network Systems examines the utilization of the Internet and Local Area/Wide Area Networks in all areas of human endeavor. This three-volume set covers, among other topics, database systems, data compression, database architecture, data acquisition, asynchronous transfer mode (ATM) and the practical application of these technologies. The international collection of contributors was culled from exhaustive research of over 100,000

related archival and technical journals. This reference will be indispensable to engineering and computer science libraries, research libraries, and telecommunications, networking, and computer companies. It covers a diverse array of topics, including: * Techniques in emerging database system architectures * Techniques and applications in data mining * Object-oriented database systems * Data acquisition on the WWW during heavy client/server traffic periods * Information exploration on the WWW * Education and training in multimedia database systems * Data structure techniques in rapid prototyping and manufacturing * Wireless ATM in data networks for mobile systems * Applications in corporate finance * Scientific data visualization * Data compression and information retrieval * Techniques in medical systems, intensive care units
Multi-Camera Networks John Wiley & Sons
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.
Distributed Computer and Communication Networks Cengage Learning
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

Data Communication and Computer Network: Easy to Learn and Simple to Develop Course Technology

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, *Data and Computer Communications* Vikas Publishing House

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.

Database and Data Communication Network Systems, Three-Volume Set Springer Science & Business Media

Over the past few years, many fundamental changes have occurred in data communications and networking that will shape the future for decades to come. Updated with the latest advances in the field, Jerry FitzGerald and Alan Dennis' 10th Edition of Business Data Communications and Networking continues to provide the fundamental concepts and cutting-edge coverage applications that students need to succeed in this fast-moving field. Authors FitzGerald and Dennis have developed a foundation and balanced presentation from which new technologies and applications can be easily understood, evaluated, and compared.

Applied Data Communications and Networks PHI Learning Pvt. Ltd.

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.

Computer Networks, Big Data and IoT

Pearson Education India

Computer Networks & Communications (NetCom) is the proceedings from the Fourth International Conference on Networks & Communications. This book covers theory, methodology and applications of computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings will feature peer-reviewed papers that illustrate research results, projects, surveys and industrial experiences that describe significant advances in the diverse areas of computer networks & communications.

Best Sellers - Books :

- [The Summer I Turned Pretty \(summer I Turned Pretty, The\)](#)
- [Little Blue Truck's Springtime: An Easter And Springtime Book For Kids By Alice Schertle](#)
- [How To Catch A Leprechaun By Adam Wallace](#)
- [Kindergarten, Here I Come! By D.j. Steinberg](#)
- [The Creative Act: A Way Of Being](#)
- [The Seven Husbands Of Evelyn Hugo: A Novel](#)
- [Dog Man: Twenty Thousand Fleas Under The Sea: A Graphic Novel \(dog Man #11\): From The Creator Of Captain Underpants By Dav Pilkey](#)
- [Playground](#)
- [Our Class Is A Family \(our Class Is A Family & Our School Is A Family\) By Shannon Olsen](#)
- [The Inmate: A Gripping Psychological Thriller By Freida Mcfadden](#)