

READ ONLINE DATA COMMUNICATION BY PRAKASH C GUPTA

Data Communications

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

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

Focused on fundamental concepts and practical applications, this book provides a strong foundation in the principles and terminology of computer networking and internet technology. This thoroughly revised second edition, incorporating some of the latest technical features in networking, is suitable for introductory one-semester courses for undergraduate students of computer science and engineering, electronics and telecommunication engineering, information technology, as well as students of computer applications (BCA and MCA). This text begins with an overview of computer networking and a discussion on data communication. Then it proceeds to explain how computer networks such as local area networks (LANs) and wide area networks (WANs) work, and how internetworking is implemented. Besides, the book provides a description of the Internet and TCP/IP protocol. With the prolific growth of networking, 'network management and security' has become an increasingly important part of the academic curriculum. This topic has been adequately dealt with in a separate chapter. The practical aspects of networking, listing the essential requirements needed for actually setting up a computer network, are thoroughly explained in the final chapter of the book. WHAT IS NEW IN THE SECOND EDITION • Wireless LAN in Chapter 4 • API

and Socket Programming and End-to-End Protocol in Chapter 7 • Remote Procedure Call (RPC) Protocol in Chapter 8 • Dynamic Host Configuration Protocol –Error reporting by ICMP –Virtual Private Network (VPN) in Chapter 9 –Network Address Translation (NAT) An appendix dealing with telephone networking, wireless networking, cellular networking and satellite and telemetry communication has been included to meet the requirements of the students.

Data Communication And Computer Networks

This book is a collection of best selected research papers presented at the 6th International Conference on Opto-Electronics and Applied Optics (OPTRONIX 2020) organized by the University of Engineering & Management, Kolkata, India, in June 2020. The primary focus is to address issues and developments in optoelectronics with particular emphasis on communication technology, IoT and intelligent systems, information processing and its different kinds. The theme of the book is in alignment with the theme of the conference “Advances in Smart Communication Technology and Information Processing.” The purpose of this book is to inform the scientists and researchers of this field in India and abroad about the latest developments in the relevant field and to raise awareness among the academic fraternity to get them involved in different activities in the years ahead – an effort to realize knowledge-based society.

Fundamentals of Computer Networks

This comprehensive treatment of network information theory and its applications provides the first unified coverage of both classical and recent results. With an approach that balances the introduction of new models and new coding techniques, readers are guided through Shannon's point-to-point information theory, single-hop networks, multihop networks, and extensions to distributed computing, secrecy, wireless communication, and networking. Elementary mathematical tools and techniques are used throughout, requiring only basic knowledge of probability, whilst unified proofs of coding theorems are based on a few simple lemmas, making the text accessible to newcomers. Key topics covered include successive cancellation and superposition coding, MIMO wireless communication, network coding, and cooperative relaying. Also covered are feedback and interactive communication, capacity approximations and scaling laws, and asynchronous and random access channels. This book is ideal for use in the classroom, for self-study, and as a reference for researchers and engineers in industry and academia.

Advances in Smart Communication Technology and Information Processing

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, these are: General data compression (Chapters 2 and 3) Video, images and sound (Chapters 4-11) Error coding and encryption (Chapters 12-17) TCP/IP, WWW, Internets and Intranets (Chapters 18-20 and 23) Electronic Mail (Chapter 21) HTML (Chapters 25 and 26) Java (Chapters 27-29) Communication Programs (Chapters 20, 29 and 49) Network Operating Systems (Chapters 31-34) LANs/WANs (Chapters 35, 38-46) Serial Communications (Chapters 47 and 48) Parallel Communications (Chapters 50-52) Local Communications (Chapters 53-57) Routing and Protocols (Chapters 36 and 37) Cables and connectors (Chapters 58--60) Many handbooks and reference guides on the market contain endless tables and mathematics, or are dry to read and contain very little insight in their subject area. I have tried to make this book readable, but also contain key information which can be used by professionals.

Network Information Theory

The International Conference on Communication and Computing Systems (ICCCS 2018) provides a high-

level international forum for researchers and recent advances in the field of electronic devices, computing, big data analytics, cyber security, quantum computing, biocomputing, telecommunication, etc. The aim of the conference was to bridge the gap between the technological advancements in the industry and the academic research.

Handbook of Data Communications and Networks

Internet usage has become a facet of everyday life, especially as more technological advances have made it easier to connect to the web from virtually anywhere in the developed world. However, with this increased usage comes heightened threats to security within digital environments. The Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security identifies emergent research and techniques being utilized in the field of cryptology and cyber threat prevention. Featuring theoretical perspectives, best practices, and future research directions, this handbook of research is a vital resource for professionals, researchers, faculty members, scientists, graduate students, scholars, and software developers interested in threat identification and prevention.

Communication and Computing Systems

This book presents best selected papers presented at the International Conference on Evolving Technologies for Computing, Communication and Smart World (ETCCS 2020) held on 31 January–1 February 2020 at C-DAC, Noida, India. It is co-organized by Southern Federal University, Russia; University of Jan Wyżykowski (UJW), Polkowice, Poland; and CSI, India. C-DAC, Noida received funding from MietY during the event. The technical services are supported through EasyChair, Turnitin, MailChimp and IAC Education. The book includes current research works in the areas of network and computing technologies, wireless networks and Internet of things (IoT), futuristic computing technologies, communication technologies, security and privacy.

Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security

This book presents the outcomes of the Intelligent Communication Technologies and Virtual Mobile Networks Conference (ICICV 2019) held in Tirunelveli, India, on February 14–15, 2019. It presents the state of the art in the field, identifying emerging research topics and communication technologies and defining the future of intelligent communication approaches and virtual computing. In light of the tremendous growth ICT, it examines the rapid developments in virtual reality in communication technology and high-quality services in mobile networks, including the integration of virtual mobile computing and communication technologies, which permits new technologies based on the resources and services of computational intelligence, big data analytics, Internet of Things (IoT), 5G technology, automation systems, sensor networks, augmented reality, data mining, and vehicular ad hoc networks with massive cloud-based backend. These services have a significant impact on all areas of daily life, like transportation, e-commerce, health care, secure communication, location detection, smart home, smart city, social networks and many more.

Evolving Technologies for Computing, Communication and Smart World

MANAGEMENT OF DATA CENTER NETWORKS Discover state-of-the-art developments in DCNs from leading international voices in the field In *Management of Data Center Networks*, accomplished researcher and editor Dr. Nadjib Aitsaadi delivers a rigorous and insightful exploration of the network management challenges that present within intra- and inter-data center networks, including reliability, routing, and security. The book also discusses new architectures found in data center networks that aim to minimize the complexity of network management while maximizing Quality of Service, like Wireless/Wired DCNs, server-only DCNs, and more. As DCNs become increasingly popular with the spread of cloud computing and

multimedia social networks employing new transmission technologies like 5G wireless and wireless fiber, the editor provides readers with chapters written by world-leading authors on topics like routing, the reliability of inter-data center networks, energy management, and security. The book also offers: A thorough overview of the architectures of data center networks, including the classification of switch-centric, server-centric, enhanced, optical, and wireless DCN architectures An exploration of resource management in wired and wireless data center networks, including routing and wireless channel allocation and assignment challenges and criteria Practical discussions of inter-data center networks, including an overview of basic virtual network embedding Examinations of energy and security management in data center networks Perfect for academic and industrial researchers studying the optimization of data center networks, Management of Data Center Networks is also an indispensable guide for anyone seeking a one-stop resource on the architectures, protocols, security, and tools required to effectively manage data centers.

Intelligent Communication Technologies and Virtual Mobile Networks

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.

Management of Data Center Networks

Special Features: \" Covers Practical Examples About The Book: The Advanced Computer Network book covers most of the key network technologies, services, and protocols that are frequently used in current networks [SS-1]. The book helps you to understand Optical Networking Standards - SONET/SDH and DWDM; Packet Switching Protocols - X.25, SMDS, and ATM; Protocols and Interfaces in TCP/IP suite; Internet Routing Protocols - RIP, OSPF, BGP, MOSPF, and DVMRP; Network Management Protocol - SNMP; Traffic Engineering and Capacity Planning; Protocols and Standards for Multimedia over Internet - RTP, RSVP, G.729, G.723, and H.323; Network Security Standards - DMZ, NAT, Prot forwarding, Proxy Server, and Packet Filtering; and Backbone Network Design.

The Handbook of Data Communications and Networks

The huge and growing demand for wireless communication systems has spurred a massive effort on the parts of the computer science and electrical engineering communities to formulate ever-more efficient protocols and algorithms. Written by a respected figure in the field, Handbook of Wireless Networks and Mobile Computing is the first book to cover the subject from a computer scientist's perspective. It provides detailed practical coverage of an array of key topics, including cellular networks, channel assignment, queuing, routing, power optimization, and much more.

ADVANCED COMPUTER NETWORK

This book focuses on methods and tools for intelligent data analysis, aimed at narrowing the increasing gap between data gathering and data comprehension, and emphasis will also be given to solving of problems

which result from automated data collection, such as analysis of computer-based patient records, data warehousing tools, intelligent alarming, effective and efficient monitoring, and so on. This book aims to describe the different approaches of Intelligent Data Analysis from a practical point of view: solving common life problems with data analysis tools.

Handbook of Wireless Networks and Mobile Computing

This book constitutes the refereed proceedings of the 6th International Conference on Database Theory, ICDT '97, held in Delphi, Greece, in January 1997. The 29 revised full papers presented in the volume were carefully selected from a total of 118 submissions. Also included are invited papers by Serge Abiteboul and Jeff Ullman as well as a tutorial on data mining by Heikki Mannila. The papers are organized in sections on conjunctive queries in heterogeneous databases, logic and databases, active databases, new applications, concurrency control, unstructured data, object-oriented databases, access methods, and spatial and bulk data.

Data Communications and Computer Networks

A business-driven approach to understanding data communications. Explaining the why and how of data communications, Michael Gendron's new textbook, *Business Driven Data Communications*, takes a business-driven infrastructure design approach—rather than solely focusing on a technical networking approach. Overall, this text presents technical material within the focus of business process support and infrastructure design.

Data Communications & Network

CLOUD AND IOT-BASED VEHICULAR AD HOC NETWORKS This book details the architecture behind smart cars being fitted and connected with vehicular cloud computing, IoT and VANET as part of the intelligent transport system (ITS). As technology continues to weave itself more tightly into everyday life, socioeconomic development has become intricately tied to ever-evolving innovations. An example of this is the technology being developed to address the massive increase in the number of vehicles on the road, which has resulted in more traffic congestion and road accidents. This challenge is being addressed by developing new technologies to optimize traffic management operations. This book describes the state-of-the-art of the recent developments of Internet of Things (IoT) and cloud computing-based concepts that have been introduced to improve Vehicular Ad-Hoc Networks (VANET) with advanced cellular networks such as 5G networks and vehicular cloud concepts. 5G cellular networks provide consistent, faster and more reliable connections within the vehicular mobile nodes. By 2030, 5G networks will deliver the virtual reality content in VANET which will support vehicle navigation with real time communications capabilities, improving road safety and enhanced passenger comfort. In particular, the reader will learn: A range of new concepts in VANETs, integration with cloud computing and IoT, emerging wireless networking and computing models New VANET architecture, technology gap, business opportunities, future applications, worldwide applicability, challenges and drawbacks Details of the significance of 5G Networks in VANET, vehicular cloud computing, edge (fog) computing based on VANET. Audience The book will be widely used by researchers, automotive industry engineers, technology developers, system architects, IT specialists, policymakers and students.

Intelligent Data Analysis

The book features research papers presented at the International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2018), offering significant contributions from researchers and practitioners in academia and industry. The topics covered include computer networks, network protocols and wireless networks, data communication technologies, and network security. Covering the main core and specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practices, these

proceedings are a valuable resource, for researchers, instructors, students, scientists, engineers, managers, and industry practitioners. .

Database Theory - ICDT '97

Included in this work is coverage of the Internet and WWW, with a detailed examination of Intranets. Real-world case studies and Web courses are used to support the pedagogy.

Data Communications and Networking

This practical introduction to data communications takes a \"top down\" approach that starts by first determining business objectives and then developing a system to meet those objectives. This comprehensive text prepares readers with the knowledge of data communication design, equipment, and services necessary for the workplace.

Data Communications

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,

Planning for Data Communications

Provides the fundamental principles and practical tools needed to design next-generation wireless networks that are both energy- and spectrum-efficient.

Business Driven Data Communications

Stroke is a medical emergency that requires immediate medical attention. With active and efficient nursing management in the initial hours after stroke onset and throughout subsequent care, effective recovery and rehabilitation is increased. Acute Stroke Nursing provides an evidence-based, practical text facilitating the provision of optimal stroke care during the primary prevention, acute and continuing care phases. This timely and comprehensive text is structured to follow the acute stroke pathway experienced by patients. It explores the causes, symptoms and effects of stroke, and provides guidance on issues such as nutrition, continence, positioning, mobility and carer support. The text also considers rehabilitation, discharge planning, palliative care and the role of the nurse within the multi-professional team. Acute Stroke Nursing is the definitive reference on acute stroke for all nurses and healthcare professionals wishing to extend their knowledge of stroke nursing. Evidence-based and practical in style, with case studies and practice examples throughout Edited and authored by recognised stroke nursing experts, clinicians and leaders in the field of nursing practice, research and education The first text to explore stroke management from UK and international perspectives, and with a nursing focus

Cloud and IoT-Based Vehicular Ad Hoc Networks

This textbook reflects the latest trends in business data communications and addresses basic concepts such as local area networks, protocols, network management, and network software without excessive detail or overly technical discussions.

International Conference on Computer Networks and Communication Technologies

The best-selling Distributed Sensor Networks became the definitive guide to understanding this far-reaching

technology. Preserving the excellence and accessibility of its predecessor, Distributed Sensor Networks, Second Edition once again provides all the fundamentals and applications in one complete, self-contained source. Ideal as a tutorial for students or as research material for engineers, the book gives readers up-to-date, practical insight on all aspects of the field. Revised and expanded, this second edition incorporates contributions from many veterans of the DARPA ISO SENSIT program as well as new material from distinguished researchers in the field. Sensor Networking and Applications focuses on sensor deployment and networking, adaptive tasking, self-configuration, and system control. In the expanded applications section, the book draws on the insight of practitioners in the field. Readers of this book may also be interested in Distributed Sensor Networks, Second Edition: Image and Sensor Signal Processing (ISBN: 9781439862827).

Fundamental of Data Communication Network

\This book addresses key issues for businesses utilizing data communications and the increasing importance of networking technologies in business; it 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\--Provided by publisher.

Business Data Communications

The authoritative, general reference that has been sorely missing in the field of mobile computing This book teaches all the main topics via the hottest applications in a rapidlygrowing field. \Big picture\ explanations of ad hoc networks and service discovery Exercises, projects, and solutions to illustrate core concepts Extensive wireless security methodologies

Applied Data Communications

Data Communications

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