

Data Communication And Computer Networks Prakash C Gupta

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2021-12-15

AMIR ROY

*Data Communication And Computer
Networks* Springer Nature

Recent developments in computer communications and networks have enabled the deployment of exciting new areas such as Internet of Things and collaborative big data analysis. The design and implementation of energy efficient future generation communication and networking technologies also require the clever research and development of mobile, pervasive, and large-scale computing technologies. *Advances in Computer Communications and Networks: from Green, Mobile, Pervasive Networking to Big Data Computing studies* and presents recent advances in communication and networking technologies reflecting the state-of-the-art research achievements in novel communication technology and network optimization. Technical topics discussed in the book include: Data Center Networks Mobile Ad Hoc Networks Multimedia Networks Internet of Things Wireless Spectrum Network Optimization. This book is ideal for personnel in computer communication and networking industries as well as academic staff and collegial, master, Ph.D. students in computer science, computer engineering, electrical engineering and telecommunication systems.

*Advances in Computer Communications
and Networks* Prentice Hall

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.

Data and Computer Communications Elsevier

This book is a collection of peer-reviewed best selected research papers presented at 3rd International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2020). The book covers new results in theory, methodology, and applications of computer networks and data communications. It includes original papers on computer networks, network protocols and wireless networks, data communication technologies, and network security. The proceedings of this conference is a valuable resource, dealing with both the important core and the 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 practice. It is a reference for researchers, instructors, students, scientists, engineers, managers, and industry practitioners for advance work in the area.

Data and Computer Communications Pearson Education India

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: A Business User's Approach* Wiley-IEEE Computer Society Press
In network design, the gap between theory and practice is woefully broad. This book narrows it, comprehensively and critically examining current network design models and methods. You will learn where

mathematical modeling and algorithmic optimization have been under-utilized. At the opposite extreme, you will learn where they tend to fail to contribute to the twin goals of network efficiency and cost-savings. Most of all, you will learn precisely how to tailor theoretical models to make them as useful as possible in practice. Throughout, the authors focus on the traffic demands encountered in the real world of network design. Their generic approach, however, allows problem formulations and solutions to be applied across the board to virtually any type of backbone communication or computer network. For beginners, this book is an excellent introduction. For seasoned professionals, it provides immediate solutions and a strong foundation for further advances in the use of mathematical modeling for network design. - Written by leading researchers with a combined 40 years of industrial and academic network design experience. - Considers the development of design models for different technologies, including TCP/IP, IDN, MPLS, ATM, SONET/SDH, and WDM. - Discusses recent topics such as shortest path routing and fair bandwidth assignment in IP/MPLS networks. - Addresses proper multi-layer modeling across network layers using different technologies—for example, IP over ATM over SONET, IP over WDM, and IDN over SONET. - Covers restoration-oriented design methods that allow recovery from failures of large-capacity transport links and transit nodes. - Presents, at the end of each chapter, exercises useful to both students and practitioners.

Computer Networks, Big Data and IoT
Vikas Publishing House

This book is concerned exclusively with discrete-time queues and their applications to the performance modeling of communication and computer networks. Since most modern networks operate on the basis of time slotting, and transmit information in fixed length (packets or

cells), it thus becomes natural to model such networks in discrete-time by associating a time slot in a physical network with the unit time in the corresponding discrete-time model. The book shows how, in this way, very accurate models that faithfully reproduce the stochastic behaviour of a communication or computer network can be constructed. The treatment is self contained, and progresses from basic probability theory and discrete-time queueing networks. These latter are applied to model the performance of numerous wide area satellite networks and local area networks, ranging in complexity from simple Aloha schemes to the timed token protocol of the FDDI network. The main objective of this book is to present a unified method for modeling any network access protocol as a discrete-time queueing network and to develop efficient solution techniques for these models. A significant number of the models and their solutions which are included have not previously appeared in the open literature. The text should prove useful to practitioners and researchers concerned with communication and computer network performance modeling, or anyone wanting a sound understanding of the application of discrete-time technique to this subject area.

Data Communications and Networking

Addison-Wesley
Original textbook (c) October 31, 2011 by Olivier Bonaventure, is licensed under a Creative Commons Attribution (CC BY) license made possible by funding from The Saylor Foundation's Open Textbook Challenge in order to be incorporated into Saylor's collection of open courses available at: <http://www.saylor.org>. Free PDF 282 pages at <https://www.textbookequity.org/bonaventure-computer-networking-principles-protocols-and-practice/> This open textbook aims to fill the gap between the open-source implementations and the open-source network specifications by providing a detailed but pedagogical description of the key principles that guide the operation of the Internet.

1 Preface 2 Introduction 3 The application Layer 4 The transport layer 5 The network layer 6 The datalink layer and the Local Area Networks 7 Glossary 8 Bibliography

DATA COMMUNICATIONS AND COMPUTER NETWORKS

Prentice Hall
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.

Computer Networks & Communications (NetCom)

PHI Learning Pvt. Ltd.
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 Ethernet, 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 Communication and Computer Networks

PHI Learning Pvt. Ltd.
Introduction, datacommunications, information theory, introduction to local area networks. Internet protocols ...
Computer and Communication Networks
CRC Press

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 booming telecommunications revolution. Providing a solid background of fundamentals to tomorrow's information systems professionals, this survey of data communications keeps a balance between the super-technical and the watered-down, providing a solid understanding not only of how things work, but how they can be applied to create business solutions. An accompanying interactive CD-ROM, integrates tightly with the book and provides 11 modules that make concepts come to life and allow hands-on practice of skills. This new, updated second edition features even more remediation at the end of each chapter and coverage of cutting-edge technologies such as Bluetooth, highly elliptical orbiting satellites, V.92, code division multiplexing, and wireless technologies.

Principles of Computer Networks and Communications

Pearson Education
Data Communication and Computer Network: Easy to Learn and Simple to Develop is ideal for self-study, as it covers all essential topics in depth and is easy to understand. The author's unique approach thoroughly illustrates the theoretical and practical aspects of data communication and the computer network, and the technologies and the tools that academic and network managers simply must know. This textbook is perfect for students pursuing their B.E., B.Tech., M.C.A., B.Sc. (Computer Science), or BCA degrees. It presupposes no prior experience with data communication and computer network on the part of the reader and serves as a comprehensive introduction to data communication and computer network concepts and network application development. Data Communication, Data Representation Layered Tasks, TCP/IP Protocol Suite, Physical Layer and Media, Transmission Impairment, Multiplexing, Data Link Layer, UDP and Application Layer are some of the concepts that the book deals with.

Computer Networks

Springer Science & Business Media
This book constitutes the refereed proceedings of the International Symposium on Computer Networks and Distributed Systems, CNDS 2013, held in

Tehran, Iran, in December 2013. The 14 full papers presented were carefully reviewed and selected from numerous submissions. They are organized in topical sections such as cognitive and multimedia networks; wireless sensor networks; security; clouds and grids.

Data Communications and Networking
Addison Wesley

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.

Communication and Computer Networks
Dario Toncich

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.

Advanced Data Communications and Networks Notion Press

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 Communication and Computer Network: Easy to Learn and Simple to Develop Elsevier

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 and Computer Communications
Course Technology

Revised to reflect the rapid changes in the field of networking, 'Computer Networks' begins with applications-level protocols and then works down the protocol stack. Professors Kurose and Ross focus on describing the emerging principles in an engaging manner and then illustrate these principles with examples drawn from internet architecture.

Fundamentals of Data Communication Networks Springer

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
Digital Data Communications Cengage Learning

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions. This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined; shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. - Completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications - Increased focus on application layer issues where innovative and exciting research and design is currently the center of attention - Free downloadable network simulation software and lab experiments manual available