Computer Networking Kurose 5th Edition

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Network Security Huga Media
The completely updated NETWORK+ GUIDE TO NETWORKS, 6th Edition gives students the technical skills and industry know-how required to begin an exciting career installing, configuring, and troubleshooting computer networks. The text also prepares students for CompTIA's Network+ N10-005 certification exam with fundamentals in protocols, topologies, hardware, and network design. After exploring TCP/IP, Ethernet, wireless transmission, and security concepts, as well as an all-new chapter on virtual networks, students can increase their knowledge with the practical On-the Jobstories, Review Questions, Hands-On Projects, and Case Projects. NETWORK+ GUIDE TO NETWORKS, 6th Edition also includes reference appendices, a glossary, and full-color illustrations. The features of the text combined with its emphasis on real-world problem solving, provides students with the tools they need to succeed in any computing environment. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.
Pearson Education India
A clear, student-friendly and engaging introduction to how information technology is used in business. Featuring several case studies, video interviews, thorough pedagogy and completely up-to-date chapters, this textbook will be a core resource for undergraduate students of Business Information Systems, a compulsory module in business degrees.
Structure and Interpretation of Computer Programs McGraw-Hill College
Appropriate for Computer Networking or Introduction to Networking courses at both the undergraduate and graduate level in Computer Science, Electrical Engineering, CIS, MIS, and Business Departments. Tanenbaum takes a structured approach to explaining how networks work from the inside out. He starts with an explanation of the physical layer of networking, computer hardware and transmission systems; then works his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing, and streaming media.
Cognitive Social Mining Applications in Data Analytics and Forensics Computer Networking: A Top-Down Approach Featuring the Internet, 3/e
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 Networking with Internet Protocols and Technology John Wiley & Sons

"This e-book focuses on the application of artificial intelligence resources in fields related to Control and Automation Engineering. Techniques such as neural networks, fuzzy logic and expert systems are a key tool for researchers and engineers requiring "

Computer Networks IGI Global

Compared with other wireless communication technologies, such as Bluetooth, WiFi, and UWB, ZigBee is a far more reliable, affordable, and energy-efficient option. It is also the only global wireless communication standard for easily deployed, low-power consumption products.ZigBee Network Protocols and Applications provides detailed descriptions of

Network Security Essentials MIT Press

Data Communications and Networking is designed to help students understand the basics of data communications and networking, and the protocols used in the Internet in particular by using the protocol layering of the Internet and TCP/IP protocol suite. Technologies related to data communication and networking may be the fastest growing in today's culture. The appearance of some new social networking applications is a testimony to this claim. In this Internet-oriented society, specialists need to be trained to run and manage the Internet, part of the Internet, or an organization's network that is connected to the Internet. 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 830 figures. Now in its Fifth 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.

A Decision and Game-Theoretic Approach John Wiley & Sons

This book provides a practical, up-to-date, and comprehensive survey of network-based and Internet-based security applications and standards. This books covers e-mail security, IP security, Web security, and network management security. It also includes a concise section on the discipline of cryptography—covering algorithms and protocols underlying network security applications, encryption, hash functions, digital signatures, and key exchange. For system engineers, engineers, programmers, system managers, network managers, product marketing personnel, and system support specialists.

Computer Networking: A Top-Down Approach Featuring the Internet, 3/e John Wiley & Sons

The sixth edition of the highly acclaimed "Fundamentals of Computers" lucidly presents how a computer system functions. Both hardware and software aspects of computers are covered. The book begins with how numeric and character data are represented in a computer, how various input and output units function, how different types of memory units are organized, and how data is processed by the processor. The interconnection and communication between the I/O units, the memory, and the processor is explained clearly and concisely. Software concepts such as programming languages, operating systems, and communication protocols are discussed. With growing use of wireless to access computer networks, cellular wireless communication systems, WiFi (Wireless high fidelity), and WiMAX have become important. Thus it has now become part of "fundamental knowledge" of computers and has been included. Besides this, use of computers in multimedia processing has become commonplace and hence is discussed. With the increase in speed of networks and consequently the Internet, new computing environments such as peer to peer, grid, and cloud computing have emerged and will change the future of computing. Hence a new chapter on this topic has been included in this edition. This book is an ideal text for undergraduate and postgraduate students of Computer Applications (BCA and MCA), undergraduate students of engineering and computer science who study fundamentals of computers as a core course, and students of management who should all know the basics of computer hardware and software. It is ideally suited for working professionals who want to update their knowledge of fundamentals of computers. Key features • Fully updated retaining the style and all contents of the fifth edition. • In-depth discussion of both wired and wireless computer networks. • Extensive discussion of analog and digital communications. • Advanced topics such as multiprogramming, virtual memory, DMA, RISC, DSP, RFID, Smart Cards, WiGig, GSM, CDMA, novel I/O devices, and multimedia compression (MP3, MPEG) are described from first principles. • A new chapter on Emerging Computing Environments, namely, peer to peer, grid, and cloud computing, has been added for the first time in an entry level book. • Each chapter begins with learning goals and ends with a summary to aid self-study. • Includes an updated glossary of over 340 technical terms used in the book.

JavaScript Edition McGraw-Hill Higher Education

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.

ZigBee Network Protocols and Applications CRC Press

Though network security has almost always been about encryption and decryption, the field of network security is moving towards securing the network environment rather than just stored or transferred data. Privacy, Intrusion Detection and Response: Technologies for Protecting Networks explores the latest practices and research works in the area of privacy, intrusion detection, and response. Increased interest on intrusion detection together with prevention and response proves that protecting data either in the storage or during transfer is necessary, but not sufficient, for the security of a network. This book discusses the latest trends and developments in network security and privacy, and serves as a vital reference for researchers, academics, and practitioners working in the field of privacy, intrusion detection, and response.

Telecommunications Law and Policy in the Internet Age Cambridge University Press

A thoroughly updated, comprehensive, and accessible guide to U.S. telecommunications law and policy, covering recent developments including mobile broadband issues, spectrum policy, and net neutrality. In Digital Crossroads, two experts on telecommunications policy offer a comprehensive and accessible analysis of the regulation of competition in the U.S. telecommunications industry. The first edition of Digital Crossroads (MIT Press, 2005) became an essential and uniquely readable guide for policymakers, lawyers, scholars, and students in a fast-moving and complex policy field. In this second edition, the authors have revised every section of every chapter to reflect the evolution in industry structure, technology, and regulatory strategy since 2005. The book features entirely new discussions of such topics as the explosive development of the mobile broadband ecosystem; incentive auctions and other recent spectrum policy initiatives; the FCC's net neutrality rules; the National Broadband Plan; the declining relevance of the traditional public switched telephone network; and the policy response to online video services and their potential to transform the way Americans watch television. Like its predecessor, this new edition of Digital Crossroads not only helps nonspecialists climb this field's formidable learning curve, but also makes substantive contributions to ongoing policy debates.

ECCWS2014-Proceedings of the 13th European Conference on Cyber warefare and Security Springer Science & Business Media

Introducing data communications and computer networks, this revised and updated edition takes account of developments in the area. Coverage includes essential theory associated with digital transmission, interface standards, data compression and error detection methods.

Practical Guide for Programmers CRC Press

Covering attack detection, malware response, algorithm and mechanism design, privacy, and risk management, this comprehensive work applies unique quantitative models derived from decision, control, and game theories to understanding diverse network security problems. It provides the reader with a system-level theoretical understanding of network security, and is essential reading for researchers interested in a quantitative approach to key incentive and resource allocation issues in the field. It also provides practitioners with an analytical foundation that is useful for formalising decision-making processes in network security.

A Systems Approach Prentice Hall

Recently, there has been a rapid increase in interest regarding social network analysis in the data mining community. Cognitive radios are expected to play a major role in meeting this exploding traffic demand on social networks due to their ability to sense the environment, analyze outdoor parameters, and then make decisions for dynamic time, frequency, space, resource allocation, and management to improve the utilization of mining the social data. Cognitive Social Mining Applications in Data Analytics and Forensics is an essential reference source that reviews cognitive radio concepts and examines their applications to social mining using a machine learning approach so that an adaptive and intelligent mining is achieved. Featuring research on topics such as data mining, real-time ubiquitous social mining services, and cognitive computing, this book is ideally designed for social network analysts, researchers, academicians, and industry professionals.

Privacy, Intrusion Detection and Response: Technologies for Protecting Networks MIT Press

A complete introduction tocar-to-X communications networking Automotive Inter-networking will introduce a range of new network and system technologies for vehicle safety, entertainment and comfort systems currently being researched and developed. C2X networking is not only a matter of technology, but is also very closely related to policy-making about deployment. This book will provide the background on technical developments but will also discuss the potential benefits, costs and risks. Also discussed will be concepts related to application of vehicle-to-vehicle and vehicle-to-infrastructure communication technologies for various purposes such as automobile safety enhancement, vehicle user applications for comfort and convenience and efficiency along with other potential commercial applications. Application domains will build the starting point for an analysis of the requirements on suitable mobile network technology and the book will look at how well existing and new systems match these requirements. New automotive-specific technologies are presented in detail, explaining millimeter wave short range systems and special automotive network protocols. Specially designed system services and security mechanisms are introduced and system architecture, radio spectrum use, medium access control, network protocols and security concepts and considered. Finally, the book will present the current world-wide standardization activities, deployment strategies and an outlook about the evolvement of inter-vehicle communications in the next decades. Presents a comprehensive top-down approach to the newly evolving car-to-X communications networking Provides a broad overview of all relevant C2X communication topics Written by well known

experts in the field Predicts the outlook of the evolvement of inter-vehicle communications in the next decades Includes illustrations and high-level technical sketches of application domains and photographs, 3D renderings and professional graphical sketches of current prototypes

Wireless Network Security Prentice Hall

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Search Engine Freedom 5TH EDITION

This book provides professionals with a fresh and comprehensive survey of the entire field of computer networks and Internet technology—including an up-to-date report of leading-edge technologies. TCP/IP, network security, Internet protocols, integrated and differentiated services, TCP performance, congestion in data networks, network management, and more. For programmers, systems engineers, network designers, and others involved in the design of data communications and networking products; product marketing personnel; and data processing personnel who want up-to-date coverage of a broad survey of topics in networking, Internet technology and protocols, and standards.

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Computer Networking: A Top-Down Approach Featuring the Internet, 3/ePearson Education IndiaComputer NetworksA Systems ApproachElsevier

Computer Networks Quiz Book Prentice Hall

On computer networks