High Speed Networks William Stallings Second Edition

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High Speed Networks William Stallings Second Edition *2022-08-05*

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Computer Organization & Architecture 7e BoD – Books on Demand
Data and Computer Communications, Eighth Edition offers a clear, comprehensive, and unified view of the entire fields of data communications, networking, and protocols. William Stallings organizes this massive subject into small, comprehensible elements, building a complete survey of the state-of-the-art, one piece at a time. Stallings has substantially revised this international best-seller to reflect today's latest innovations, from WiFi and 10 Gbps Ethernet to advanced congestion control and IP performance metrics.
Network Functions Virtualization (NFV) with a Touch of SDN Prentice Hall
Annotation This clearly organized, amiably written guide provides solutions for the interoperability issues that come up when Linux and Windows are used together, including: using Samba and Linux for file and print services, implementing the best connectivity techniques, providing reliable data exchange, providing high performance cross-platform database access via ODBC, making the most of platform-independent, browser-based applications, and managing the two systems at the same workstation with boot managers, partitioning, compressed drives, and file systems. McCune is a consultant in Chicago. Annotation c. Book News, Inc., Portland, OR (booknews.com)
Foundations of Modern Networking CRC Press
The 5G ultra-high-speed wireless communication standard is a major technological leap forward. For both technical and management professionals, it requires significant new knowledge and enables important new applications. In 5G Wireless: A Comprehensive Introduction, renowned information technology author William Stallings presents a comprehensive and unified explanation of 5G's key aspects, applications, and implications. Like Stallings' other award-winning texts, this guide is designed to help readers quickly find the information and gain the mastery you need to master this critical new technology. Coverage includes: Background and overview: A concise history of the development of cellular networks through 4G, introducing 5G's motivation, characteristics, and technologies. Application and use cases: A broad survey of both general application areas and specific use cases; includes coverage of implications for IoT, cloud, and fog computing. Air interface: A detailed survey of all aspects of radio transmission and the wireless interface. 5G core: A survey of 5G core architecture and deployment. 5G security and privacy: Requirements, threats, vulnerabilities, security controls, security product and service solutions, and privacy.
Wireline and Wireless - Alternatives for Internet Services Prentice Hall
The workshop from which these papers originate intended to present the state of the art within the High Speed Local Area Networks (HSLAN) area as well as to give directions for the solution of unsolved problems. Some of the most important questions were: - Which applications for HSLAN? - When will products appear on the market at a more reasonable price? - Which performance is required for connecting stations i.e. will the limited terminal capacity result in serious bottlenecks (as in some established lower speed LAN)? - Are HSLAN the adequate solution for LAN subnetwork interconnection? - Will interconnected HSLAN extend to metropolitan area networks (MAN)? - Will wideband ISDN and its associated PBX make HSLAN concepts obsolete? Results showed that there is enormous progress in concept development and in understanding of specific problems arising in the HSLAN environment. Performance aspects have become much clearer, too. There was a consensus that what the future needs for research and development in the HSLAN field is a change of direction from introduction of new schemes and access methods towards the important feature of gaining experience with pilot installations in a real environment. Furthermore, upcoming standards should be carefully investigated.
Performance Analysis of Multiple Access Protocols John Wiley & Sons
High-speed Networks and InternetsPerformance and Quality of Service
Mobile Communications MIT Press
Computer Security: Principles and Practice, 2e, is ideal for courses in Computer/Network Security. In recent years, the need for education in computer security and related topics has grown dramatically – and is essential for anyone studying Computer Science or Computer Engineering. This is the only text available to provide integrated, comprehensive, up-to-date coverage of the broad range of topics in this subject. In addition to an extensive pedagogical program, the book provides unparalleled support for both research and modeling projects, giving students a broader perspective. The Text and Academic Authors Association named Computer Security: Principles and Practice, 1e, the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008.
5G Wireless John Wiley & Sons
Stallings provides a survey of the principles and practice of cryptography and network security. This edition has been updated to reflect the latest developments in the field. It has also been extensively reorganized to provide the optimal sequence for classroom instruction and self-study.
High Speed Networks Pearson Education India
This text provides a practical survey of both the principles and practice of cryptography and network security. First, the basic issues to be addressed by a network security capability are explored through a tutorial and survey of cryptography and network security technology. Then, the practice of network security is explored via practical applications that have been implemented and are in use today.
Cryptography and Network Security McGraw-Hill Companies
The Practical, Comprehensive Guide to Applying Cybersecurity Best Practices and Standards in Real Environments In Effective Cybersecurity, William Stallings introduces the technology, operational procedures, and management practices needed for successful cybersecurity. Stallings makes extensive use of standards and best practices documents that are often used to guide or mandate cybersecurity implementation. Going beyond these, he offers in-depth tutorials on the “how” of implementation, integrated into a unified framework and realistic plan of action. Each chapter contains a clear technical overview, as well as a detailed discussion of action items and appropriate policies. Stallings offers many pedagogical features designed to help readers master the material: clear learning objectives, keyword lists, review questions, and QR codes linking to relevant standards documents and web resources. Effective Cybersecurity aligns with the comprehensive Information Security Forum document “The Standard of Good Practice for Information Security,” extending ISF’s work with extensive insights from ISO, NIST, COBIT, other official standards and guidelines, and modern professional, academic, and industry literature. • Understand the cybersecurity discipline and the role of standards and best practices • Define security governance, assess risks, and manage strategy and tactics • Safeguard information and privacy, and ensure GDPR compliance • Harden systems across the system development life cycle (SDLC) • Protect servers, virtualized systems, and storage • Secure networks and electronic communications, from email to VoIP • Apply the most appropriate methods for user authentication • Mitigate security risks in supply chains and cloud environments This knowledge is indispensable to every cybersecurity professional. Stallings presents it systematically and coherently, making it practical and actionable.
Computer Networking with Internet Protocols and Technology North Holland
Leading authorities deliver the commandments for designing high-speed networks There are no end of books touting the virtues of one or another high-speed networking technology, but until now, there were none offering networking professionals a framework for choosing and integrating the best ones for their organization's networking needs. Written by two world-renowned experts in the field of high-speed network design, this book outlines a total strategy for designing high-bandwidth, low-latency systems. Using real-world implementation examples to illustrate their points, the authors cover all aspects of network design, including network components, network architectures, topologies, protocols, application interactions, and more.
Principles and Practice Pearson Higher Ed
Written by experts in the field, this book provides an overview of all forms of broadband subscriber access networks and technology, including fiber optics, DSL for phone lines, DOCSIS for coax, power line carrier, and wireless. Each technology is described in depth, with a discussion of key concepts, historical development, and industry standards. The book contains comprehensive coverage of all broadband access technologies, with a section each devoted to fiber-based technologies, non-fiber wired technologies, and wireless technologies. The four co-authors’ breadth of knowledge is featured in the chapters comparing the relative strengths, weaknesses, and prognosis for the competing technologies. Key Features: Covers the physical and medium access layers (OSI Layer 1 and 2), with emphasis on access transmission technology Compares and contrasts all recent and emerging wired and wireless standards for broadband access in a single reference Illustrates the technology that is currently being deployed by network providers, and also the technology that has recently been or will soon be standardized for deployment in the coming years, including vectoring, wavelength division multiple access, CDMA, OFDMA, and MIMO Contains detailed discussion on the following standards: 10G-EPON, G-PON, XG-PON, VDSL2, DOCSIS 3.0, DOCSIS Protocol over EPON, power line carrier, IEEE 802.11 WLAN/WiFi, UMTS/HSPA, LTE, and LTE-Advanced
Integrating Linux and Windows Prentice Hall
For a one-semester undergraduate course in operating systems for computer science, computer engineering, and electrical engineering majors. Winner of the 2009 Textbook Excellence Award from the Text and Academic Authors Association (TAA)! Operating Systems: Internals and Design Principles is a comprehensive and unified introduction to operating systems. By using several innovative tools, Stallings makes it possible to understand critical core concepts that can be fundamentally challenging. The new edition includes the implementation of web based animations to aid visual learners. At key points in the book, students are directed to view an animation and then are provided with assignments to alter the animation input and analyze the results. The concepts are then enhanced and supported by end-of-chapter case studies of UNIX, Linux and Windows Vista. These provide students with a solid understanding of the key mechanisms of modern operating systems and the types of design tradeoffs and decisions involved in OS design. Because they are embedded into the text as end of chapter material, students are able to apply them right at the point of discussion. This approach is equally useful as a basic reference and as an up-to-date survey of the state of the art.
Netw Fun Vir (NFV ePub_1 IEEE Computer Society
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.

ISDN and Broadband ISDN with Frame Relay and ATM Springer Science & Business Media

Bestselling author William Stallings presents comprehensive, up-to-date coverage of TCP performance design issues. A high-level overview of cutting-edge network and Intranet design, this book focuses on high-speed technologies like routing for multimedia, how to manage traffic flow, and compression techniques for maximizing throughout.

Data and Computer Communications Cisco Press

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. The Principles and Practice of Cryptography and Network Security Stallings' Cryptography and Network Security, Seventh Edition, introduces the reader to the compelling and evolving field of cryptography and network security. In an age of viruses and hackers, electronic eavesdropping, and electronic fraud on a global scale, security is paramount. The purpose of this book is to provide a practical survey of both the principles and practice of cryptography and network security. In the first part of the book, the basic issues to be addressed by a network security capability are explored by providing a tutorial and survey of cryptography and network security technology. The latter part of the book deals with the practice of network security: practical applications that have been implemented and are in use to provide network security. The Seventh Edition streamlines subject matter with new and updated material — including Sage, one of the most important features of the book. Sage is an open-source, multiplatform, freeware package that implements a very powerful, flexible, and easily learned mathematics and computer algebra system. It provides hands-on experience with cryptographic algorithms and supporting homework assignments. With Sage, the reader learns a powerful tool that can be used for virtually any mathematical application. The book also provides an unparalleled degree of support for the reader to ensure a successful learning experience.

Wireless Communication Networks and Systems, Global Edition Addison-Wesley Professional

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.

High Speed Local Area Networks Pearson Education India

For graduate and undergraduate courses in computer science, computer engineering, and electrical engineering Fundamentals of Processor and Computer Design Computer Organization and Architecture is a comprehensive coverage of the entire field of computer design updated with the most recent research and innovations in computer structure and function. With clear, concise, and easy-to-read material, the Tenth Edition is a user-friendly source for students studying computers. Subjects such as I/O functions and structures, RISC, and parallel processors are explored integratively throughout, with real world examples enhancing the text for student interest. With brand new material and strengthened pedagogy, this text engages students in the world of computer organization and architecture.

Networking and Internetworking Prentice Hall

For courses in wireless communication networks and systems A Comprehensive Overview of Wireless Communications Wireless Communication Networks and Systems covers all types of wireless communications, from satellite and cellular to local and personal area networks. Organized into four easily comprehensible, reader-friendly parts, it presents a clear and comprehensive overview of the field of wireless communications. For those who are new to the topic, the book explains basic principles and fundamental topics concerning the technology and architecture of the field. Numerous figures and tables help clarify discussions, and each chapter includes a list of keywords, review questions, homework problems, and suggestions for further reading. The book includes an extensive online glossary, a list of frequently used acronyms, and a reference list. A diverse set of projects and other student exercises enables instructors to use the book as a component in a varied learning experience, tailoring courses to meet their specific needs.

Principles and Practice Prentice Hall

Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability. Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This book also includes useful information for consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find Top-Down Network Design, Third Edition, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-Down Network Design also has updated material on the following topics: ¿ Network redundancy ¿ Modularity in network designs ¿ The Cisco SAFE security reference architecture ¿ The Rapid Spanning Tree Protocol (RSTP) ¿ Internet Protocol version 6 (IPv6) ¿ Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet ¿ Network design and management tools

Top-Down Network Design Elsevier

Master advanced MPLS VPN deployment solutions to design, deploy, and troubleshoot advanced or large-scale networks. This title builds on the bestselling success of the first volume with more advanced features to get more out of a network.