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by William Stallings Last Updated: Friday, September 26, 2008 This site is intended to provide support for instructors and students using the book. For more information about the book, see the Prentice Hall Page .

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High-speed networks and internet performance and quality of service. Details Category: Computer High-speed networks and internet performance and quality of service Material Type Book Language English Title High-speed networks and internet performance and quality of service Author(S) William Stallings Publication Data Patparganj, Delhi: Pearson Education Publication€ Date 2002 Edition NA Physical Description XVII, 715p Subject Computer Subject Headings Computer networks Telecommunication ...

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William Stallings offers the most comprehensive technical book to address a wide range of design issues of high-speed TCP/IP and ATM networks in print to date. "High-Speed Networks and Internets" presents both the professional and advanced student an up-to-date survey of key issues. The Companion Website and the author's Web page offer unmatched support for students and instructors. The book features the prominent use of figures and tables and an up-to-date bibliography. In this second edition, this award-winning and best-selling author steps up to the leading edge of integrated coverage of key issues in the design of high-speed TCP/IP and ATM networks to include the following topics: Unified coverage of integrated and differentiated services. Up-to-date and comprehensive coverage of TCP performance. Thorough coverage of next-generation Internet protocols including (RSVP), (MPLS), (RTP), and the use of Ipv6. Unified treatment of congestion in data networks; packet-switching, frame relay, ATM networks, and IP-based internets. Broad and detailed coverage of routing, unicast, and multicast. Comprehensive coverage of ATM; basic technology and the newest traffic control standards. Solid, easy-to-absorb mathematical background enabling understanding of the issues related to high-speed network performance and design. Up-to-date treatment of gigabit Ethernet. The first treatment of self-similar traffic for performance assessment in a textbook on networks (Explains the mathematics behind self-similar traffic and shows the performance implications and how to estimate performance parameters.) Up-to-date coverage of compression. (A comprehensive survey.) Coverage of gigabit networks. Gigabit design issues permeate the book.

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 throughput.

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.

This book will provide a comprehensive technical guide covering fundamentals, recent advances and open issues in wireless communications and networks to the readers. The objective of the book is to serve as a valuable reference for students, educators, scientists, faculty members, researchers, engineers and research strategists in these rapidly evolving fields and to encourage them to actively explore these broad, exciting and rapidly evolving research areas.

Rapid advances in networking technology have promoted a fully revised second edition of this successful introduction to communication networks.

Broadcast media, such as satellite, ground radio, and multipoint cable channels, can easily provide full connectivity for communication among geographically distributed users. One of the most important problems in the design of networks (referred to as packet broadcast networks) that can take practical advantage of broadcast channels is how to achieve efficient sharing of a single common channel. Many multiple access protocols, or algorithms, for packet broadcast networks have been proposed, and much work has been done on the performance evaluation of the protocols. A variety of techniques have been used to analyze the performance; however, this is the first book to provide a unified approach to the performance evaluation problem by means of an approximate analytical technique called equilibrium point analysis. Two types of packet broadcast networks - satellite networks and local area networks are considered, and eight multiple access protocols are studied and their performance analyzed in terms of throughput and average message delay. Contents Part I: Fundamentals - Multiple Access Protocols and Performance - Equilibrium Point Analysis - Part II: Satellite Networks - S-ALOHA - R-ALOHA - ALOHA-Reservation - TDMAReservation - SRUC - TDMA - Performance Comparisons of the Protocols for Satellite Networks - Part III: Local Area Networks - Buffered CSMACD - BRAM Performance Analysis of Multiple Access Protocols is included in the Computer Systems Series, Research Reports and Notes, edited by Herb Schwetman.

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.

The explosion of traffic over data communications networks has resulted in a growing demand for Quality of Service (QoS) techniques to ensure network reliability, particularly in regard to e-commerce applications. Written by two experts in the field, this book covers the implementation of QoS techniques from an engineering point of view. Readers will find practical, up-to-date coverage of all key QoS technologies, real-world engineering examples illustrating theoretical results, and a discussion of new control techniques for the next generation multimedia networks. Market: Electrical Engineers and Computer Scientists involved with high-speed networks

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