[eBooks] High Performance Backbone Network Technology

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High-Performance Backbone Network Technology-Naoaki Yamanaka 2020-04-01 Compiling the most influential papers from the IEICE Transactions in Communications, High-Performance Backbone Network Technology examines critical breakthroughs in the design and provision of effective public service networks in areas including traffic control, telephone service, real-time video transfer, voice and image transmission for a content delivery network (CDN), and Internet access. The contributors explore system structures, experimental prototypes, and field trials that herald the development of new IP networks that offer quality-of-service (QoS), as well as enhanced security, reliability, and function. Offers many hints and guidelines for future research in IP and photonic backbone network technologies

Emerging Optical Network Technologies-Krishna M. Sivalingam 2006-01-16 Optical networks have moved from laboratory settings and theoretical research to real-world deployment and service-oriented explorations. New technologies such as Ethernet PON, traffic grooming, regional and metropolitan network architectures and optical packet switching are being explored, and the landscape is continuously and rapidly evolving. Some of the important issues involving these new technologies involve the architectural, protocol, and performance related issues. This book addresses many of these issues and presents a birds eye view of some of the more promising technologies. Researchers and those pursuing advanced degrees in this field will be able to see where progress is being made and new technologies are emerging. Emerging Optical Network Technologies: Architectures, Protocols and Performance provides state-of-the-art material written by the most prominent professionals in their respective areas.

Broadband Satellite Communications for Internet Access-Sastri L. Kota 2003-11-30 Broadband Satellite Communications for Internet Access is a systems engineering methodology for satellite communication networks. It discusses the implementation of Internet applications that involve network design issues usually addressed in standard organizations. Various protocols for IP- and ATM-based networks are examined and a comparative performance evaluation of different alternatives is described. This methodology can be applied to similar evaluations over any other transport medium.

Selected Readings on Telecommunications and Networking-Gutierrez, Jairo 2008-08-31 "This book presents quality articles focused on key issues concerning the planning, design, maintenance, and management of telecommunications and networking technologies"--Provided by publisher.

Networking 2005 Networking Technologies, Services, And Protocols; Performance of Computer And Communication Networks; Mobile and Wireless Communications Systems-Raouf Boutaba 2005-04-27 This book constitutes the refereed proceedings of the 4th International IFIP-TC6 Networking Conference, NETWORKING 2005, held in Waterloo, Canada in May 2005. The 105 revised full papers and 36 posters were carefully reviewed and selected from 430 submissions. The papers are organized in topical sections on peer-to-peer networks, Internet protocols, wireless security, network security, wireless performance, network service support, network modeling and simulation, wireless LAN, optical networks, Internet performance and Web applications, ad-hoc networks, adaptive networks, radio resource management, Internet routing, queuing models, monitoring, network management, sensor networks, overlay multicast, QoS, wirless scheduling, multicast traffic management and engineering, mobility management, bandwith management, DCMA, and wireless resource management.

High-performance Communication Networks-Jean Walrand 2000 Rapid advances in networking technology have promoted a fully revised second edition of this successful introduction to communication networks.

Instructor's Manual to Accompany Computer Communications and Networking Technologies- 2002

High Speed LAN Technology Handbook-Dhiman D. Chowdhury 2000-05-09 This book teaches the architectures, design principles, and troubleshooting techniques of a LAN, imparted via the presentation of a broad scope of data and computer communication standards, real-world inter-networking techniques, architectures, hardware, software, protocols, technologies and services as they relate to the design, implementation and troubleshooting of such a network.

High Performance Data Network Design-Tony Kenyon 2002-01-24 High-Performance Data Network Design contains comprehensive coverage of network design, performance, and availability. Tony Kenyon provides the tools to solve medium- to large-scale data network design problems from the ground up. He lays out a practical and systematic approach that integrates network planning, research, design, and deployment, using state-of-the-art techniques in performance analysis, cost analysis, simulation, and topology modeling. The proliferation and complexity of data networks today is challenging our ability to design and manage them effectively. A new generation of Internet, e-commerce, and multimedia applications has changed traditional assumptions on traffic dynamics, and demands tight quality of service and security guarantees. These issues, combined with the economics of moving large traffic volumes across international backbones, mean that the demands placed on network designers, planners, and managers are now greater than ever before. High-Performance Data Network Design is a "must have" for anyone seriously involved in designing data networks. Together with the companion volume, Data Networks: Routing, Security, and Performance Optimization, this book gives readers the guidance they need to plan, implement, and optimize their enterprise infrastructure. · Provides real insight into the entire design process · Includes basic principles, practical advice, and examples of design for industrial-strength enterprise data networks · Integrates topics often overlooked—backbone optimization, bottleneck analysis, simulation tools, and network costing

Internet 2 and Next Generation Internet-Conrad Burns 2000-12-01 Hearing to examine 2 initiatives which have potential to lay the foundation for growth of the Internet into the 21st cent., the Next Generation Internet and the Internet 2 project. Witnesses: Gwen Jacobs, co-dir., center for computational biol., Montana State Univ.; Henry Kelly, U.S. Office of Science and Technology; Ken Kennedy, dir., center for research on parallel computation, Rice Univ.; Neal Lane, Dir., NSF; Bonnie Neas, dir. of info. tech. services, N. Dakota State Univ.; Cherri Pancake, prof. of computer science, Oregon State Univ.; and Douglas Van Houweling, vice provost for info. and technology, Univ. of Michigan, and vice chairman, Internet 2 Project.

Optical Networks and WDM Newsletter-

Networking 2002-Enrico Gregori 2002-05-08 This book constitutes the refereed proceedings of the Second IFIP-TC6 Networking Conference, NETWORKING 2002, held in Pisa, Italy, in May 2002.The 82 revised full papers and 31 short papers presented together with three invited contributions were carefully reviewed and selected from a total of 314 submissions. The papers are organized in topical sections on multicasting, differentiated services, network performance, self-organizing networks services and protocols, call admission control, voice/video performance modeling, Web access, optical networks, network and traffic modeling, ad hoc networks, resource allocation, LAN and PAN, wireless network performance, multimedia, TCP, IP, queueing models, satellite networks, optical network performance, multi-protocol label switching, and future wireless networks.

High Performance Networking, V-Serge Fdida 1994

Beyond Computing and Connectivity - Where Is Communications Technology Taking Us?-Thomas Egan 1993

Protocols for High-Speed Networks VI-Joseph Touch 1999-11-30 1 This year marks the l0 h anniversary of the IFIP International Workshop on Protocols for High-Speed Networks (PfHSN). It began in May 1989, on a hillside overlooking Lake Zurich in Switzerland, and arrives now in Salem Massachusetts 6,000 kilometers away and 10 years later, in its sixth incarnation, but still with a waterfront view (the Atlantic Ocean). In between, it has visited some picturesque views of other lakes and bays of the world: Palo Alto (1990 - San Francisco Bay), Stockholm (1993 - Baltic Sea), Vancouver (1994- the Strait of Georgia and the Pacific Ocean), and Sophia Antipolis I Nice (1996- the Mediterranean Sea). PfHSN is a workshop providing an international forum for the exchange of information on high-speed networks. It is a relatively small workshop, limited to 80 participants or less, to encourage lively discussion and the active participation of all attendees. A significant component of the workshop is interactive in nature, with a long history of significant time reserved for discussions. This was enhanced in 1996 by Christophe Diot and W allid Dabbous with the institution of Working Sessions chaired by an "animator," who is a distinguished researcher focusing on topical issues of the day. These sessions are an audience participation event, and are one of the things that makes PfHSN a true "working conference.

NETWORKING 2000. Broadband Communications, High Performance Networking, and Performance of Communication Networks-Ifip-Tc6 2000-05-03 This book constitutes the refereed proceedings of the IFIP-TC6/European Union International Conference, NETWORKING 2000, held in Paris, France, in May 2000. The 82 revised full papers presented were selected from a total of 209 submissions. The book presents the state of the art in networking research and development. Among the topics covered are wireless networks, optical networks, switching architectures, residential access networks, signaling, voice and video modeling, congestion control, call admission control, QoS, TCP/IP over ATM, interworking of IP and ATM, Internet protocols, differential services, routing, multicasting, real-time traffic management, resource management and allocation, and performance modeling.

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Gigabit Networks: A Gigabit Ethernet Market Study-

ATM Newsletter-

Wireless Quality of Service-Maode Ma 2008-09-09 Focusing on an important and complicated topic in wireless network design, Wireless Quality of Service: Techniques, Standards, and Applications systematically addresses the quality-of-service (QoS) issues found in many types of popular wireless networks. In each chapter, the book presents numerous QoS challenges encountered in real-world applications and delineates ways to overcome these obstacles. Some of the challenges explored are performance impairments in WLAN hotspots, video streaming applications, and broadband wireless access. The techniques and mechanisms covered to tackle these problems include medium access and call admission control techniques, a parameter tuning algorithm, the QoS-enabling features of IEEE 802.11e, a Markov chain model, a probe-based distributed admission control mechanism, topology-transparent scheduling protocols, and a novel multicast congestion control mechanism. Addressing advanced topics and future directions, the expert contributors acknowledge the need for more research to solve several open issues. In the meantime, they offer innovative solutions to solve current QoS problems.

High-speed Networks-William Stallings 1998 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.

Linear Programming and Algorithms for Communication Networks-Eiji Oki 2012-08-24 Explaining how to apply to mathematical programming to network design and control, Linear Programming and Algorithms for Communication Networks: A Practical Guide to Network Design, Control, and Management fills the gap between mathematical programming theory and its implementation in communication networks. From the basics all the way through to more advanced concepts, its comprehensive coverage provides readers with a solid foundation in mathematical programming for communication networks. Addressing optimization problems for communication networks, including the shortest path problem, max flow problem, and minimum-cost flow problem, the book covers the fundamentals of linear programming and integer linear programming required to address a wide range of problems. It also: Examines several problems on finding disjoint paths for reliable communications Addresses optimization problems in optical wavelength-routed networks Describes several routing strategies for maximizing network utilization for various traffic-demand models Considers routing problems in Internet Protocol (IP) networks Presents mathematical puzzles that can be tackled by integer linear programming (ILP) Using the GNU Linear Programming Kit (GLPK) package, which is designed for solving linear programming and mixed integer programming problems, it explains typical problems and provides solutions for communication networks. The book provides algorithms for these problems as well as helpful examples with demonstrations. Once you gain an understanding of how to solve LP problems for communication networks using the GLPK descriptions in this book, you will also be able to easily apply your knowledge to other solvers.

Global Information Infrastructure (GII) Evolution-Sathya Rao 1996 This book provides the reader with a state-of-the-art knowledge on the evolution of communication networks towards global information infrastructure. The symposium specially addressed the issues of interworking to solve the interoperability issues in the heterogeneous networks environment. The articles cover the strategical issues concerning the evolution towards the broadband communication infrastructure with ATM based technologies and related challenge with control and management functionalities to be implemented to provide secure, cost-effective and interoperable high performance networks of the future. The topical issues are well organised to cover the full spectrum of related issues in terms of signalling and management, Multimedia service handling, Traffic management to guarantee the quality of service, interworking between narrow band and broadband networks, interworking issues related with network management, internet, mobile/satellite networks as well as the practical experiences around the world. The book is planned to provide the reader with an overview of the current status of infrastructure evolution direction so that they can plan the appropriate networks taking the futuristic scenarios into consideration.

An Information Resource On Education-S.K. Soni 2004

Advanced Internet Protocols, Services, and Applications-Eiji Oki 2012-04-24 Today, the internet and computer networking are essential parts of business, learning, and personal communications and entertainment. Virtually all messages or transactions sent over the internet are carried using internet infrastructure- based on advanced internet protocols. Advanced internet protocols ensure that both public and private networks operate with maximum performance, security, and flexibility. This book is intended to provide a comprehensive technical overview and survey of advanced internet protocols, first providing a solid introduction and going on to discuss internetworking technologies, architectures and protocols. The book also shows application of the concepts in next generation networks and discusses protection and restoration, as well as various tunnelling protocols and applications. The book ends with a thorough discussion of emerging topics.

High Speed Networks and Multimedia Communications-Zoubir Mammeri 2004-06-17 This book constitutes the refereed proceedings of the 7th IEEE International Conference on High Speed Networking and Multimedia Communications, HSNMC 2004, held in Toulouse, France in June/July 2004. The 101 revised full papers presented were carefully reviewed and selected from 266 submissions. The papers are organized in topical sections on quality of service, QoS, DiffServ, and performance analysis; scheduling and resource allocation; MPLS; routing and multicast; mobile networks, mobile IP, 3G/UMTS; IEEE 802.11 networks and ad hoc networks; wireless and WLAN; optical networks and WDM; applications and software development; and security and privacy.

Integrated Broadband Communication Networks and Services-V.B. Iversen 2014-05-21 The importance of Broadband Communications in shaping the future telecommunication network has achieved world-wide recognition. This volume validates the huge significance of the field and explores key items concerning research, development and applications. The ideas and experiences presented will be of great interest to operators and users, for research and development, from both a technical and a commercial perspective.

Computer Communications and Networking Technologies-Michael A. Gallo 2002 This title is restricted to retail sales. Please contact Academic Support at 800-423-0563 to discuss adoption policy.

Fiber optics weekly update-

Managing Telecommunications and Networking Technologies in the 21st Century-Gerald Grant 2001 A detailed analysis of prominent issues and trends facing telecom and networking professionals and policy makers.

Handbook of Research on Ubiquitous Computing Technology for Real Time Enterprises-M⃞hlh⃞user, Max 2008-01-31 "This book combines the fundamental methods, algorithms, and concepts of pervasive computing with current innovations and solutions to emerging challenges. It systemically covers such topics as network and application scalability, wireless network connectivity, adaptability and "context-aware" computing, information technology security and liability, and human-computer interaction"--Provided by publisher.

Information Technology for Energy Managers-Barney L. Capehart 2003-11-07 Covering the basic concepts and principles of Information Technology (IT), this book gives energy managers the knowledge they need to supervise the IT work of a consultant or a vendor. The book provides the necessary information for the energy manager to

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