



# HIGH-PERFORMANCE COMMUNICATION NETWORKS

JEAN WALRAND  
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SECOND EDITION

# Highperformance Communication Networks The Morgan Kaufmann Series In Networking

**Jean Walrand,Pravin Varaiya**



## **Highperformance Communication Networks The Morgan Kaufmann Series In Networking:**

**High-performance Communication Networks** Jean Walrand, Pravin Pratap Varaiya, 2000 Retaining the first edition's technology centred perspective this book gives readers a sound understanding of packet switched circuit switched and ATM networks and techniques for controlling them *High-Performance Communication Networks* Jean Walrand, Pravin Varaiya, 1999-10-25 By focusing on the convergence of the telephone computer networking cable TV and wireless industries this fully revised second edition explains current and emerging networking technologies The authors proceed from fundamental principles to develop a comprehensive understanding of network architectures protocols control performance and economics Communications engineers computer scientists and network administrators and managers will appreciate the book for its perspectives on the innovations that impact their work Students will be enriched by the descriptive and thorough coverage of networking giving them the knowledge to explore rewarding career opportunities Provides the most recent information on wide and local area networks including WDM and optical networks Fast and Gigabit Ethernet access networks such as cable modems and DSL approaches for quality differentiated services in IP and ATM networks Examines the Internet including proposed advances for improved performance and quality of service Presents a comprehensive discussion of wireless networks for voice and data Explains the economic factors and technical tradeoffs that guide network development Derives in self contained sections the most important mathematical results of network performance

**Network Algorithmics** George Varghese, 2005 In designing a network device you make dozens of decisions that affect the speed with which it will perform sometimes for better but sometimes for worse *Network Algorithmics* provides a complete coherent methodology for maximizing speed while meeting your other design goals Author George Varghese begins by laying out the implementation bottlenecks that are most often encountered at four disparate levels of implementation protocol OS hardware and architecture He then derives 15 solid principles ranging from the commonly recognized to the groundbreaking that are key to breaking these bottlenecks The rest of the book is devoted to a systematic application of these principles to bottlenecks found specifically in endnodes interconnect devices and specialty functions such as security and measurement that can be located anywhere along the network This immensely practical clearly presented information will benefit anyone involved with network implementation as well as students who have made this work their goal **FOR INSTRUCTORS** To obtain access to the solutions manual for this title simply register on our textbook website [textbooks.elsevier.com](http://textbooks.elsevier.com) and request access to the Computer Science subject area Once approved usually within one business day you will be able to access all of the instructor only materials through the Instructor Manual link on this book's academic web page at [textbooks.elsevier.com](http://textbooks.elsevier.com) Addresses the bottlenecks found in all kinds of network devices data copying control transfer demultiplexing timers and more and offers ways to break them Presents techniques suitable specifically for endnodes including Web servers Presents techniques suitable specifically for interconnect devices including routers bridges and

gateways Written as a practical guide for implementers but full of valuable insights for students teachers and researchers Includes end of chapter summaries and exercises      Wireless Communications & Networking Vijay Garg,2010-07-28 This book provides comprehensive coverage of mobile data networking and mobile communications under a single cover for diverse audiences including managers practicing engineers and students who need to understand this industry In the last two decades many books have been written on the subject of wireless communications and networking However mobile data networking and mobile communications were not fully addressed in a unified fashion This book fills that gap in the literature and is written to provide essentials of wireless communications and wireless networking including Wireless Personal Area Networks WPAN Wireless Local Area Networks WLAN and Wireless Wide Area Networks WWAN The first ten chapters of the book focus on the fundamentals that are required to study mobile data networking and mobile communications Numerous solved examples have been included to show applications of theoretical concepts In addition unsolved problems are given at the end of each chapter for practice A solutions manual will be available After introducing fundamental concepts the book focuses on mobile networking aspects Four chapters are devoted on the discussion of WPAN WLAN WWAN and internetworking between WLAN and WWAN Remaining seven chapters deal with other aspects of mobile communications such as mobility management security cellular network planning and 4G systems A unique feature of this book that is missing in most of the available books on wireless communications and networking is a balance between the theoretical and practical concepts Moreover this book can be used to teach a one two semester course in mobile data networking and mobile communications to ECE and CS students Details the essentials of Wireless Personal Area Networks WPAN Wireless Local Area Networks WLAN and Wireless Wide Area Networks WWAN Comprehensive and up to date coverage including the latest in standards and 4G technology Suitable for classroom use in senior first year grad level courses Solutions manual and other instructor support available      *Communication Networking* Anurag Kumar,D. Manjunath,Joy Kuri,2004-06-02

Communication Networking is a comprehensive effectively organized introduction to the realities of communication network engineering Written for both the workplace and the classroom this book lays the foundation and provides the answers required for building an efficient state of the art network one that can expand to meet growing demand and evolve to capitalize on coming technological advances It focuses on the three building blocks out of which a communication network is constructed multiplexing switching and routing The discussions are based on the viewpoint that communication networking is about efficient resource sharing The progression is natural the book begins with individual physical links and proceeds to their combination in a network The approach is analytical discussion is driven by mathematical analyses of and solutions to specific engineering problems Fundamental concepts are explained in detail and design issues are placed in context through real world examples from current technologies The text offers in depth coverage of many current topics including network calculus with deterministically constrained traffic congestion control for elastic traffic packet switch queuing switching

architectures virtual path routing and routing for quality of service It also includes more than 200 hands on exercises and class tested problems dozens of schematic figures a review of key mathematical concepts and a glossary This book will be of interest to networking professionals whose work is primarily architecture definition and implementation i e network engineers and designers at telecom companies industrial research labs etc It will also appeal to final year undergrad and first year graduate students in EE CE and CS programs Systematically uses mathematical models and analyses to drive the development of a practical understanding of core network engineering problems Provides in depth coverage of many current topics including network calculus with deterministically constrained traffic congestion control for elastic traffic packet switch queuing switching architectures virtual path routing and routing for quality of service Includes over 200 hands on exercises and class tested problems dozens of schematic figures a review of key mathematical concepts and a glossary

**Nanosensors** Teik-Cheng Lim, 2016-04-19 Nanosensors are rapidly becoming a technology of choice across diverse fields They offer effective and affordable options for detecting and measuring chemical and physical properties in difficult to reach biological and industrial systems operating at the nanoscale However with nanosensor development occurring in so many fields it has become di

**WiMAX** Syed A. Ahson, Mohammad Ilyas, 2018-10-03 As the demand for broadband services continues to grow worldwide traditional solutions such as digital cable and fiber optics are often difficult and expensive to implement especially in rural and remote areas The emerging WiMAX system satisfies the growing need for high data rate applications such as voiceover IP video conferencing interactive gaming and multimedia streaming WiMAX deployments not only serve residential and enterprise users but can also be deployed as a backhaul for Wi Fi hotspots or 3G cellular towers By providing affordable wireless broadband access the technology of WiMAX will revolutionize broadband communications in the developed world and bridge the digital divide in developing countries Part of the WiMAX Handbook this volume focuses on the applications of WiMAX The book describes the logical architecture of IEEE 802.16 introduces some of the main IEEE 802.16 family standards compares WiMAX to Wi Fi and studies the feasibility of supporting VoIP over WiMAX It also looks at the residential use of WiMAX as well as the strategies of using WiMAX in remote locales and rural communities In addition the book examines the backhaul requirements of a large fixed wireless network and the problem of centralized routing and scheduling for IEEE 802.16 mesh networks With the revolutionary technology of WiMAX the lives of many will undoubtedly improve thereby leading to greater economic empowerment

**GMPLS** Adrian Farrel, Igor Bryskin, 2005-12-20 The last two years have seen significant developments in the standardization of GMPLS and its implementation in optical and other networks GMPLS Architecture and Applications brings you completely up to date providing the practical information you need to put the growing set of GMPLS supported services to work and manage them effectively This book begins by defining GMPLS s place in a transport network leveraging your knowledge of MPLS to give you an understanding of this radically new control plane technology An overview of GMPLS protocols follows but the real focus is on what comes afterwards in depth

examinations of the architectures underpinning GMPLS in real world network environments and current and emerging GMPLS applications This one of a kind resource delivers immensely useful information for software architects designers and programmers hardware developers system testers and network operators and also for managers and other decision makers Written by two industry researchers at the forefront of the development of GMPLS Provides a practical look at GMPLS protocols for signaling routing link and resource management and traffic engineering Delves deep into the world of GMPLS applications including traffic engineering path computation layer one VPNs point to multipoint connectivity service management and resource protection Explores three distinct GMPLS control plane architectures peer overlay and hybrid and explains the GMPLS UNI and NNIs Explains how provisioning challenges can be met in multi region networks and details the provisioning systems and tools relied on by the GMPLS control plane along with the standard MIB modules used to manage a GMPLS system

*Satellite Communications Network Design and Analysis* Kenneth Y. Jo,2011 This authoritative book provides a thorough understanding of the fundamental concepts of satellite communications SATCOM network design and performance assessments You find discussions on a wide class of SATCOM networks using satellites as core components as well as coverage key applications in the field This in depth resource presents a broad range of critical topics from geosynchronous Earth orbiting GEO satellites and direct broadcast satellite systems to low Earth orbiting LEO satellites radio standards and protocols This invaluable reference explains the many specific uses of satellite networks including small terminal wireless and mobile communications systems Moreover this book presents advanced topics such as satellite RF link analyses optimum transponder loading on board processing antenna characteristics protected systems information assurance and spread spectrums You are introduced to current and future SATCOM systems and find details on their performance supportabilities This cutting edge book also presents trends in multimedia satellite applications and IP services over satellites

Policy-Based Network Management John Strassner,John S. Strassner,2004 A real world approach to describing the fundamental operation of Policy Based Network Management PBNM that enables practitioners to develop and implement PBNM systems

Content Networking Markus Hofmann,Leland R. Beaumont,2005-03-24 As the Internet has grown so have the challenges associated with delivering static streaming and dynamic content to end users This book is unique in that it addresses the topic of content networking exclusively and comprehensively tracing the evolution from traditional web caching to today s open and vastly more flexible architecture With this evolutionary approach the authors emphasize the field s most persistent concepts principles and mechanisms the core information that will help you understand why and how content delivery works today and apply that knowledge in the future Focuses on the principles that will give you a deep and timely understanding of content networking Offers dozens of protocol specific examples showing how real life Content Networks are currently designed and implemented Provides extensive consideration of Content Services including both the Internet Content Adaptation Protocol ICAP and Open Pluggable Edge Services OPES Examines methods for supporting time

constrained media such as streaming audio and video and real time media such as instant messages Combines the vision and rigor of a prominent researcher with the practical experience of a seasoned development engineer to provide a unique combination of theoretical depth and practical application P2P Networking and Applications John Buford, Heather Yu, Eng Keong Lua, 2009-03-11 Peer to Peer P2P networks enable users to directly share digital content such as audio video and text files as well as real time data such as telephony traffic with other users without depending on a central server Although originally popularized by unlicensed online music services such as Napster P2P networking has recently emerged as a viable multimillion dollar business model for the distribution of information telecommunications and social networking Written at an accessible level for any reader familiar with fundamental Internet protocols the book explains the conceptual operations and architecture underlying basic P2P systems using well known commercial systems as models and also provides the means to improve upon these models with innovations that will better performance security and flexibility Peer to Peer Networking and Applications is thus both a valuable starting point and an important reference to those practitioners employed by any of the 200 companies with approximately 400 million invested in this new and lucrative technology Uses well known commercial P2P systems as models thus demonstrating real world applicability Discusses how current research trends in wireless networking high def content DRM etc will intersect with P2P allowing readers to account for future developments in their designs Provides online access to the Overlay Weaver P2P emulator an open source tool that supports a number of peer to peer applications with which readers can practice Computer Networks Larry L. Peterson, Bruce S. Davie, 2007-04-16 Computer Networks Fourth Edition continues to provide an enduring practical understanding of networks and their building blocks through rich example based instruction This expanded and completely updated edition covers the why of network design focusing not just the specifications comprising today s systems but how key technologies and protocols actually work in the real world to solve specific problems It is the only introductory computer networking book written by authors who have had first hand experience with many of the protocols discussed in the text who have actually designed some of them as well and who are still actively designing the computer networks today The book makes less use of computer code to explain protocols than earlier editions Moreover this new edition shifts the focus somewhat higher in the protocol stack where there is generally more innovative and exciting work going on at the application and session layers than at the link and physical layers Other new features are increased accessibility by clearly separating the advanced material from more fundamental via special headings and boxed features the material is structured in such a way as to make it easier to teach top down Furthermore the book outstrips the competitors in offering a more robust ancillary package for student and instructor support The text is complemented with figures as well as links to networking resources on the Web and links to author created materials on author maintained Web site Computer Networks Fourth Edition will be an invaluable resource for networking professionals and upper level undergraduate and graduate students in CS EE and CSE programs Completely

updated with new sidebar discussions that cover the deployment status of protocols described in the book Addition of sizeable number of new exercises and solutions      **Computer Networks ISE** Larry L. Peterson, Bruce S. Davie, 2007-03-01 Computer Networks ISE Fourth Edition is the only introductory computer networking book written by authors who have had first hand experience with many of the protocols discussed in the book who have actually designed some of them as well and who are still actively designing the computer networks today This newly revised edition continues to provide an enduring practical understanding of networks and their building blocks through rich example based instruction The authors focus is on the why of network design not just the specifications comprising today s systems but how key technologies and protocols actually work in the real world to solve specific problems The new edition makes less use of computer code to explain protocols than earlier editions Moreover this new edition shifts the focus somewhat higher in the protocol stack where there is generally more innovative and exciting work going on at the application and session layers than at the link and physical layers Completely updated with NEW sidebars discussing successes failures of previously deployed networks Thorough companion website with downloadable OpNet network simulation software and lab experiments manual Expanded coverage of topics of utmost importance to today s networking professionals e g security wireless multimedia applications

Deploying IP and MPLS QoS for Multiservice Networks John William Evans, Clarence Filsfil, 2010-07-26 QoS short for quality of service is one of the most important goals a network designer or administrator will have Ensuring that the network runs at optimal precision with data remaining accurate traveling fast and to the correct user are the main objectives of QoS The various media that fly across the network including voice video and data have different idiosyncrasies that try the dimensions of the network This malleable network architecture poses an always moving potential problem for the network professional The authors have provided a comprehensive treatise on this subject They have included topics such as traffic engineering capacity planning and admission control This book provides real world case studies of QoS in multiservice networks These case studies remove the mystery behind QoS by illustrating the how what and why of implementing QoS within networks Readers will be able to learn from the successes and failures of these actual working designs and configurations Helps readers understand concepts of IP QoS by presenting clear descriptions of QoS components architectures and protocols Directs readers in the design and deployment of IP QoS networks through fully explained examples of actual working designs Contains real life case studies which focus on implementation      *Traffic Engineering and QoS Optimization of Integrated Voice and Data Networks* Gerald R. Ash, 2006-11-03 This book describes analyzes and recommends traffic engineering TE and quality of service QoS optimization methods for integrated voice data dynamic routing networks These functions control a network s response to traffic demands and other stimuli such as link failures or node failures TE and QoS optimization is concerned with measurement modeling characterization and control of network traffic and the application of techniques to achieve specific performance objectives The scope of the analysis and



recommendations include dimensioning call flow and connection routing QoS resource management routing table management dynamic transport routing and operational requirements Case studies are included which provide the reader with a concrete way into the technical details and highlight why and how to use the techniques described in the book Includes Case Studies of MPLS and GMPLS Network Optimization Presents state of the art traffic engineering and quality of service optimization methods and illustrates the tradeoffs between the various methods discussed Contains practical Case Studies based on large scale service provider implementations and architecture plans Written by a highly respected and well known active expert in traffic engineering and quality of service

**Wireless Sensor Networks** Feng Zhao, Leonidas Guibas, 2004-07-21 Information processing in sensor networks is a rapidly emerging area of computer science and electrical engineering research Because of advances in micro sensors wireless networking and embedded processing ad hoc networks of sensor are becoming increasingly available for commercial military and homeland security applications Examples include monitoring e g traffic habitat security industrial sensing and diagnostics e g factory appliances infrastructures i e power grid water distribution waste disposal and battle awareness e g multi target tracking This book introduces practitioners to the fundamental issues and technology constraints concerning various aspects of sensor networks such as information organization querying routing and self organization using concrete examples and does so by using concrete examples from current research and implementation efforts Written for practitioners researchers and students and relevant to all application areas including environmental monitoring industrial sensing and diagnostics automotive and transportation security and surveillance military and battlefield uses and large scale infrastructural maintenance Skillfully integrates the many disciplines at work in wireless sensor network design signal processing and estimation communication theory and protocols distributed algorithms and databases probabilistic reasoning energy aware computing design methodologies evaluation metrics and more Demonstrates how querying data routing and network self organization can support high level information processing tasks

NETWORKING 2006. Networking Technologies, Services, Protocols; Performance of Computer and Communication Networks; Mobile and Wireless Communications Systems Fernando Boavida, Thomas Plagemann, Burkhard Stiller, Cedric Westphal, Edmundo Monteiro, 2006-04-27 Here are the refereed proceedings of the 5th International IFIP TC6 Networking Conference NETWORKING 2006 The 88 revised full papers and 31 poster papers are organized in topical sections on caching and content management mobile ad hoc networks mobility handoff monitoring measurements multicast multimedia optical networks peer to peer resource management and QoS routing topology and location awareness traffic engineering transport protocols wireless networks and wireless sensor networks

*The Internet and Its Protocols* Adrian Farrel, 2004-06-02 The view presented in *The Internet and Its Protocols* is at once broad and deep It covers all the common protocols and how they combine to create the Internet in its totality More importantly it describes each one completely examining the requirements it addresses and the exact means by which it does its job These

descriptions include message flows full message formats and message exchanges for normal and error operation They are supported by numerous diagrams and tables This book s comparative approach gives you something more valuable insight into the decisions you face as you build and maintain your network network device or network application Author Adrian Farrel s experience and advice will dramatically smooth your path as you work to offer improved performance and a wider range of services Provides comprehensive in depth and comparative coverage of the Internet Protocol both IPv4 and IPv6 and its many related technologies Written for developers operators and managers and designed to be used as both an overview and a reference Discusses major concepts in traffic engineering providing detailed looks at MPLS and GMPLS and how they control both IP and non IP traffic Covers protocols for governing routing and transport and for managing switches components and the network as a whole along with higher level application protocols Offers thoughtful guidance on choosing between protocols selecting features within a protocol and other service and performance related decisions

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