

High Speed Networks William Stallings Second Edition

Wireless Communications & Networks Computer Networks Wireless Communications and Networking Local and Metropolitan Area Networks Computer Networking With Internet Protocols And Technology Local Networks High-speed networks and internets Data and Computer Communications Network Security Essentials Network Management Network Security Essentials Foundations of Modern Networking 5G Wireless Data and Computer Communications High-Speed Networking Wireless Communications and Networks Foundations of Modern Networking Network Security Essentials Local Area Networks Top-down Network Design William Stallings Andrew S. Tanenbaum William Stallings Stallings Stallings William Stallings William Stallings William Stallings William Stallings William Stallings William Stallings William Stallings William Stallings John E. McNamara Priscilla Oppenheimer

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provides for courses in wireless networking wireless communications wireless data communications or wireless technology in departments of computer science engineering it and continuing education this book helps learn wireless technology key topics such as technology and architecture network types design approaches and the applications

for one semester undergraduate graduate level courses in advanced networking wireless communications wireless data communications and wireless technology in departments of electrical engineering computer science information science and

computer engineering this comprehensive well organized text covers wireless communication and networks and the rapidly growing associated technologies the most exciting areas in the overall communications field it explores the key topics in the following general categories technology and architecture network type design approaches and applications an emphasis on specific wireless standards reflects the importance of such standards in defining the available products and future research directions in this field coverage of basic networking concepts in part one and appendices appropriate for students with little or no background in data communications consistent discussion of technology and architecture illustrates how a small collection of ingredients including frequency band signal encoding techniques error correction technique and network architecture characterize and differentiate wireless communication and networking

focuses on the underlying principles of design and implementation enabling the reader to judge design alternatives key areas covered are topology transmission medium protocols switching techniques and network interface new to this edition advances in bridges and routers lan standards annotation copyrighted by book news inc portland or

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

resource added for the network specialist it program 101502

network management technology network management functional requirements integrated network management systems distributed network management rinding fault knowledge technologies for evolving networks management information managing communication networks by monitoring databases network information modeling for network management development and integration of a management information base understanding network management with ooa system management information modeling distribution of managed object fragments and managed object replication the data distribution view of management information osi management information base implementation simple network management protocol snmp network management in the tcp ip protocol suite an integrated architecture for lan wan management mib ii extends snmp interoperability

snmp security coming soon to a network near you
osi systems management an implementation of an osi network management system
the osi network management model management by exception osi event generation reporting and logging
optimizing osi management system performance network management of tcp ip networks present and future
glossary list of acronyms annotated bibliography about the author

this book provides a practical up to date and comprehensive survey of network based and internet based security applications and standards this book covers e mail security ip security 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

foundations of modern networking is a comprehensive unified survey of modern networking technology and applications for today's professionals managers and students dr william stallings offers clear and well organized coverage of five key technologies that are transforming networks software defined networks sdn network functions virtualization nfv quality of experience qoe the internet of things iot and cloudbased services dr stallings reviews current network ecosystems and the challenges they face from big data and mobility to security and complexity next he offers complete self contained coverage of each new set of technologies how they work how they are architected and how they can be applied to solve real problems dr stallings presents a chapter length analysis of emerging security issues in modern networks he concludes with an up to date discussion of networking careers including important recent changes in roles and skill requirements coverage elements of the modern networking ecosystem technologies architecture services and applications evolving requirements of current network environments sdn concepts rationale applications and standards across data control and application planes openflow opendaylight and other key sdn technologies network functions virtualization concepts technology applications and software defined infrastructure ensuring customer quality of experience qoe with interactive video and multimedia network traffic cloud networking services deployment models architecture and linkages to sdn and nfv iot and fog computing in depth key components of iot enabled devices model architectures and example implementations securing sdn nfv cloud and iot environments career preparation and ongoing education for tomorrow's networking careers key features strong coverage of unifying principles and practical techniques more than a hundred figures that clarify key concepts support at williamstallings.com network qr codes throughout linking to the website and other resources keyword acronym lists recommended readings and glossary margin note definitions of key words throughout the text

gain a deep practical understanding of 5g technology applications architecture standards and ecosystem the 5g ultra high speed wireless communication standard is a major technological leap forward substantially increasing speed and capacity enhancing current use cases and making many new applications practical for technical professionals managers and students 5g requires significant new knowledge and expertise in 5g wireless a comprehensive introduction renowned information technology author william stallings presents a comprehensive and unified explanation of 5g s key applications technologies and standards like stallings other award winning texts this guide will help you quickly find the information and gain the mastery to succeed with critical new technology stallings first explains how cellular networks have evolved through 4g and now 5g and surveys 5g s application areas and use cases next he thoroughly introduces the 5g core network covering sdn nfv network slicing qos and edge computing and provides a detailed coverage of the 5g air interface and radio access network throughout key concepts are illuminated through realistic examples review questions help you test your understanding and references support further exploration understand the 5g ecosystem its building blocks standards and r d roadmaps explore the enhanced mobile broadband embb use case where 5g enhances 4g in applications such as smart offices and dense urban communications learn how massive machine type communications mmtc and ultra reliable and low latency communications urlcc support new applications such as fog iot and cloud discover how 5g nextgen core backbone networks serve and interconnect wireless access networks that connect user devices master key 5g nr air interface and radio access network ran concepts including millimeter wave transmission mimo antennas and ofdm multiplexing

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

for courses in wireless networking wireless communications wireless data communications or wireless technology in departments of computer science engineering it and continuing education the rapid growth of mobile telephone use satellite services and the wireless internet are generating tremendous changes in telecommunications and networking combining very current technical depth with a strong pedagogy and advanced support this new edition provides a comprehensive guide to wireless technology exploring key topics such as technology and architecture network types design approaches and the latest applications visit

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network security essentials third edition is a thorough up to date introduction to the deterrence prevention detection and correction of security violations involving information delivery across networks and the internet

local area networks an introduction to the technology second edition is intended for those who want to become more familiar with local area networks lans without facing the challenge of a 400 page text the goals of the book are to give prospective lan users or purchasers familiarity with the concepts involved and to provide a head start for reading more detailed texts since lan product offerings are constantly changing a deliberate attempt has been made to emphasize the general principles operating characteristics and problem areas of lans rather than cite specific product examples

top down network design is a practical and comprehensive guide to designing enterprise networks that are reliable secure and manageable using illustrations and real world examples it teaches a systematic method for network design that can be applied to campus lans remote access networks wan links and large scale internetworks book jacket title summary field provided by blackwell north america inc all rights reserved

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