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High Speed Networks William Stallings

*A comprehensive
overview of the
technology and standards
of ISDN and broadband*

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***ISDN, this book presents
ISDN in detail, including
services, technology, and
interfaces. The latest
standards, including the
CCITT Recommendations
and the Frame Relay***

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Forum specifications, and the key technology of frame relay is covered in detail.

Organizations of all kinds are recognizing the crucial importance of

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protecting privacy. Their customers, employees, and other stakeholders demand it. Today, failures to safeguard privacy can destroy organizational reputations - and even

the organizations themselves. But implementing effective privacy protection is difficult, and there are few comprehensive resources for those

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***tasked with doing so. In
Information Privacy
Engineering and Privacy
by Design, renowned
information technology
author William Stallings
brings together the***

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***comprehensive and
practical guidance you
need to succeed. Stallings
shows how to apply
today's consensus best
practices and widely-
accepted standards***

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***documents in your
environment, leveraging
policy, procedures, and
technology to meet legal
and regulatory
requirements and protect
everyone who depends on***

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you. Like Stallings' other award-winning texts, this guide is designed to help readers quickly find the information and gain the mastery needed to implement effective

privacy. Coverage includes: Planning for privacy: Approaches for managing and controlling the privacy control function; how to define your IT environment's

***requirements; and how to
develop appropriate
policies and procedures
for it Privacy threats:
Understanding and
identifying the full range
of threats to privacy in***

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***information collection,
storage, processing,
access, and dissemination
Information privacy
technology: Satisfying the
privacy requirements
you've defined by using***

***technical controls,
privacy policies, employee
awareness, acceptable
use policies, and other
techniques Legal and
regulatory requirements:
Understanding GDPR as***

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***well as the current
spectrum of U.S. privacy
regulations, with insight
for mapping regulatory
requirements to IT
actions***

Broadcast media, such as

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***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,

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***this is the first book to
provide a unified
approach to the
performance evaluation
problem by means of an
approximate analytical
technique called***

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***equilibrium point
analysis. Two types of
packet broadcast
networks - satellite
networks and local area
networks are considered,
and eight multiple access***

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***protocols are studied and
their performance
analyzed in terms of
throughput and average
message delay. Contents
Part I: Fundamentals -
Multiple Access Protocols***

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***and Performance -
Equilibrium Point
Analysis - Part II:
Satellite Networks - S-
ALOHA - R-ALOHA -
ALOHA-Reservation -
TDMAReservation - SRUC***

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**- TDMA - Performance
Comparisons of the
Protocols for Satellite
Networks - Part III: Local
Area Networks - Buffered
CSMACD - BRAM
Performance Analysis of**

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***Multiple Access Protocols
is included in the
Computer Systems Series,
Research Reports and
Notes, edited by Herb
Schwetman.***

Practical design and

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performance solutions for every ad hoc wireless network Ad Hoc Wireless Networks comprise mobile devices that use wireless transmission for communication. They can

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***be set up anywhere and
any time because they
eliminate the
complexities of
infrastructure setup and
central administration-
and they have enormous***

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***commercial and military
potential. Now, there's a
book that addresses every
major issue related to
their design and
performance. Ad Hoc
Wireless Networks:***

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***Architectures and
Protocols presents state-
of-the-art techniques and
solutions, and supports
them with easy-to-
understand examples.
The book starts off with***

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***the fundamentals of
wireless networking
(wireless PANs, LANs,
MANs, WANs, and
wireless Internet) and
goes on to address such
current topics as Wi-Fi***

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***networks, optical wireless
networks, and hybrid
wireless architectures.***

Coverage includes:

***Medium access control,
routing, multicasting, and
transport protocols QoS***

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***provisioning, energy
management, security,
multihop pricing, and
much more In-depth
discussion of wireless
sensor networks and ultra
wideband technology***

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***More than 200 examples
and end-of-chapter
problems Ad Hoc Wireless
Networks is an invaluable
resource for every
network engineer,
technical manager, and***

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***researcher designing or
building ad hoc wireless
networks.***

***High-Speed Networking
Business Data***

Communications

Wireless Communication

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***Networks and Systems,
Global Edition***

***A Comprehensive
Introduction***

***Computer Networking
with Internet Protocols
and Technology***

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***SDN, NFV, QoE, IoT, and
Cloud***

**Appropriate for Computer
Networking or Introduction to
Networking courses at both the
undergraduate and graduate level in
Computer Science, Electrical**

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**Engineering, CIS, MIS, and
Business Departments. Tanenbaum
takes a structured approach to
explaining how networks work from
the inside out. He starts with an
explanation of the physical layer of
networking, computer hardware and
transmission systems; then works**

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his way up to network applications. Tanenbaum's in-depth application coverage includes email; the domain name system; the World Wide Web (both client- and server-side); and multimedia (including voice over IP, Internet radio video on demand, video conferencing,

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and streaming media.

Computer Networks: A Systems Approach, Fifth Edition, explores the key principles of computer networking, with examples drawn from the real world of network and protocol design. Using the Internet as the primary example, this best-

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selling and classic textbook explains various protocols and networking technologies. The systems-oriented approach encourages students to think about how individual network components fit into a larger, complex system of interactions.

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This book has a completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, network security, and network applications such as e-mail and the Web, IP telephony and video

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streaming, and peer-to-peer file sharing. There is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention. Other topics include network design and architecture; the ways users can

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connect to a network; the concepts of switching, routing, and internetworking; end-to-end protocols; congestion control and resource allocation; and end-to-end data. Each chapter includes a problem statement, which introduces issues to be examined;

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shaded sidebars that elaborate on a topic or introduce a related advanced topic; What's Next? discussions that deal with emerging issues in research, the commercial world, or society; and exercises. This book is written for graduate or upper-division undergraduate

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classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments, as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking. Completely updated

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content with expanded coverage of the topics of utmost importance to networking professionals and students, including P2P, wireless, security, and applications Increased focus on application layer issues where innovative and exciting research and design is currently the

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**center of attention Free
downloadable network simulation
software and lab experiments
manual available**

**This book will provide a
comprehensive technical guide
covering fundamentals, recent
advances and open issues in**

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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

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encourage them to actively explore these broad, exciting and rapidly evolving research areas.

For courses in wireless communication networks and systems A Comprehensive Overview of Wireless Communications Wireless

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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

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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

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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

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exercises enables instructors to use the book as a component in a varied learning experience, tailoring courses to meet their specific needs.

Networks on Chip

Computer Networks

Broadband Integrated Networks

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**A Systems Approach
ISDN and Broadband ISDN with
Frame Relay and ATM
Information Privacy Engineering
and Privacy by Design**

**A technological overview of LTE and
WiMAX LTE, WiMAX and WLAN
Network Design, Optimization and**

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Performance Analysis provides a practical guide to LTE and WiMAX technologies introducing various tools and concepts used within. In addition, topics such as traffic modelling of IP-centric networks, RF propagation, fading, mobility, and indoor coverage are explored; new techniques which

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increase throughput such as MIMO and AAS technology are highlighted; and simulation, network design and performance analysis are also examined. Finally, in the latter part of the book Korowajczuk gives a step-by-step guide to network design, providing readers with the capability to build

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reliable and robust data networks. By focusing on LTE and WiMAX this book extends current network planning approaches to next generation wireless systems based on OFDMA, providing an essential resource for engineers and operators of fixed and wireless broadband data access networks. With

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information presented in a sequential format, LTE, WiMAX and WLAN Network Design, Optimization and Performance Analysis aids a progressive development of knowledge, complementing latter graduate and postgraduate courses while also providing a valuable resource to

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network designers, equipment vendors, reference material, operators, consultants, and regulators. Key Features: One of the first books to comprehensively explain and evaluate LTE Provides an unique explanation of the basic concepts involved in wireless broadband technologies and their

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**applications in LTE, WiMAX, and
WLAN before progressing to the
network design Demonstrates the
application of network planning for
LTE and WiMAX with theoretical and
practical approaches Includes all
aspects of system design and
optimization, such as dynamic traffic**

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simulations, multi-layered traffic analysis, statistical interference analysis, and performance estimations
Like its predecessors, this fully updated Fifth Edition of Local and Metropolitan Area Networks provides a clear, comprehensive presentation of LAN/MAN technology and the many

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emerging approaches to high-speed local networking. It meets the needs of today's students by emphasizing both the fundamental principles as well as the critical role of performance in driving LAN/MAN design.

Revised and expanded, a best-selling guide to frame relay offers detailed

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information on the most recent technological advances and provides extensive coverage of voice and IP frame relay with Virtual Private Networks (VPNs), IPv6, and ATM. Reprint. (Intermediate).

Special Features: " Covers Practical Examples About The Book: The

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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,

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**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,**

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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 Networks
Data and Computer Communications
Ad Hoc Wireless Networks**

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**Advances in Local and Metropolitan
Area Networks
Computer Organization & Architecture
7e**

Architectures and Protocols

***This book provides
professionals with a fresh
and comprehensive survey***

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*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*

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*protocols, integrated and
differentiated services,
TCP performance,
congestion in data
networks, network
management, and more. For
programmers, systems*

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*engineers, network
designers, and others
involved in the design of
data communications and
networking products;
product marketing
personnel; and data*

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*processing personnel who
want up-to-date coverage
of a broad survey of
topics in networking,
Internet technology and
protocols, and standards.
For graduate and*

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*undergraduate courses in
computer science, computer
engineering, and
electrical engineering.
Comprehensively covers
processor and computer
design fundamentals*

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Computer Organization and Architecture , 11th Edition is about the structure and function of computers. Its purpose is to present, as clearly and completely as possible,

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*the nature and
characteristics of modern-
day computer systems.
Written in a clear,
concise, and engaging
style, author William
Stallings provides a*

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*thorough discussion of the
fundamentals of computer
organization and
architecture and relates
these to contemporary
design issues. Subjects
such as I/O functions and*

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*structures, RISC, and
parallel processors are
thoroughly explored
alongside real-world
examples that enhance the
text and build interest.
Incorporating brand-new*

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*material and strengthened
pedagogy, the 11th Edition
keeps readers up to date
with recent innovations
and improvements in the
field of computer
organization and*

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*architecture This title is
a Pearson eText , an
affordable, simple-to-use,
mobile reading experience
that lets instructors and
students extend learning
beyond class time.*

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*Students can study,
highlight, and take notes
in their Pearson eText on
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phones and tablets -- even
when they are offline.
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*be purchased using an
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directly online once the
instructor creates a
course. Learn more about
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The Practical,

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*Comprehensive Guide to
Applying Cybersecurity
Best Practices and
Standards in Real
Environments In Effective
Cybersecurity, William
Stallings introduces the*

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technology, operational procedures, and management practices needed for successful cybersecurity. Stallings makes extensive use of standards and best practices documents that

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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

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*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.*

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Stallings offers many pedagogical features designed to help readers master the material: clear learning objectives, keyword lists, review questions, and QR codes

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*linking to relevant
standards documents and
web resources. Effective
Cybersecurity aligns with
the comprehensive
Information Security Forum
document "The Standard of*

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*Good Practice for
Information Security,"
extending ISF's work with
extensive insights from
ISO, NIST, COBIT, other
official standards and
guidelines, and modern*

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*professional, academic,
and industry literature. •
Understand the
cybersecurity discipline
and the role of standards
and best practices •
Define security*

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*governance, assess risks,
and manage strategy and
tactics • Safeguard
information and privacy,
and ensure GDPR compliance
• Harden systems across
the system development*

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*life cycle (SDLC) •
Protect servers,
virtualized systems, and
storage • Secure networks
and electronic
communications, from email
to VoIP • Apply the most*

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*appropriate methods for
user authentication •
Mitigate security risks in
supply chains and cloud
environments This
knowledge is indispensable
to every cybersecurity*

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*professional. Stallings
presents it systematically
and coherently, making it
practical and actionable.
As the number of processor
cores and IP blocks
integrated on a single*

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*chip is steadily growing,
a systematic approach to
design the communication
infrastructure becomes
necessary. Different
variants of packed
switched on-chip networks*

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*have been proposed by
several groups during the
past two years. This book
summarizes the state of
the art of these efforts
and discusses the major
issues from the physical*

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*integration to
architecture to operating
systems and application
interfaces. It also
provides a guideline and
vision about the direction
this field is moving to.*

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Moreover, the book outlines the consequences of adopting design platforms based on packet switched network. The consequences may in fact be far reaching because

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*many of the topics of
distributed systems,
distributed real-time
systems, fault tolerant
systems, parallel computer
architecture, parallel
programming as well as*

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*traditional system-on-chip
issues will appear
relevant but within the
constraints of a single
chip VLSI implementation.*

Networks on Chips

Top-down Network Design

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*A Systematic Approach to
High-Bandwidth Low-Latency
Communication
MPLS and VPN Architectures
Specifications and
Implementations
Data Communications and*

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Networking

A systems analysis approach to enterprise network design Master techniques for checking the health of an existing network to develop a baseline for measuring performance of a new network design Explore solutions for meeting QoS

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requirements, including ATM traffic management, IETF controlled-load and guaranteed services, IP multicast, and advanced switching, queuing, and routing algorithms Develop network designs that provide the high bandwidth and low delay required for real-time applications such as

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multimedia, distance learning, and videoconferencing Identify the advantages and disadvantages of various switching and routing protocols, including transparent bridging, Inter-Switch Link (ISL), IEEE 802.1Q, IGRP, EIGRP, OSPF, and BGP4 Effectively incorporate new

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technologies into enterprise network designs, including VPNs, wireless networking, and IP Telephony Top-Down Network Design, Second Edition, is a practical and comprehensive guide to designing enterprise networks that are reliable, secure, and manageable. Using

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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. You will learn to analyze business and technical requirements, examine traffic flow and

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QoS requirements, and select protocols and technologies based on performance goals. You will also develop an understanding of network performance factors such as network utilization, throughput, accuracy, efficiency, delay, and jitter. Several charts and job aids will help you apply

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a top-down approach to network design. This Second Edition has been revised to include new and updated material on wireless networks, virtual private networks (VPNs), network security, network redundancy, modularity in network designs, dynamic addressing for IPv4 and IPv6,

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new network design and management tools, Ethernet scalability options (including 10-Gbps Ethernet, Metro Ethernet, and Long-Reach Ethernet), and networks that carry voice and data traffic. Top-Down Network Design, Second Edition, has a companion website at

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<http://www.topdownbook.com>, which includes updates to the book, links to white papers, and supplemental information about design resources. This book is part of the Networking Technology Series from Cisco Press, which offers networking professionals valuable information for constructing

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efficient networks, understanding new technologies, and building successful careers.

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

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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

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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.

This book is the definitive guide to

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SNMP-based network and internetwork management for network administrators, managers, and designers. Concise, focusing on practical issues, and completely up to date, it covers SNMPv1, SNMPv2, and the most recent SNMPv3, as well as RMON1 and RMON2 - all of which are

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currently deployed in LANs and WANs. With this book, you will be better equipped to determine your network management needs, gain insight into design issues, and obtain the necessary understanding to evaluate available SNMP-based products. The author presents helpful

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background information, including an overview of network management requirements and an explanation of fundamentals such as network management architecture; performance, fault, and accounting monitoring; and configuration and security control.

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Business Data Communications, 6/e,
is ideal for use in Business Data
Communications, Data
Communications, and introductory
Networking for Business courses.
Business Data Communications,
6/e, covers the fundamentals of data
communications, networking,

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distributed applications, and network management and security. Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff, structuring his text around requirements, ingredients, and

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applications. While making liberal use of real-world case studies and charts and graphs to provide a business perspective, the book also provides the student with a solid grasp of the technical foundation of business data communications. Throughout the text, references to the interactive, online

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animations supply a powerful tool in understanding complex protocol mechanisms. The Sixth Edition maintains Stallings' superlative support for either a research projects or modeling projects component in the course. The diverse set of projects and student exercises enables the

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instructor to use the book as a component in a rich and varied learning experience and to tailor a course plan to meet the specific needs of the instructor and students.

High-speed Networks

First International Conference, ICES
2004, Hangzhou, China, December

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9-10, 2004, Revised Selected Papers
Performance Analysis of Multiple
Access Protocols
5G Wireless
Architectures, Protocols, and
Standards
Effective Cybersecurity
High-Speed Networking for

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Multimedia Applications presents the latest research on the architecture and protocols for high-speed networks, focusing on communication support for distributed multimedia applications. This

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includes the two major issues of ATM Networking and quality of service for multimedia applications. It is to be expected that most of the bandwidth in future high-speed networks will be taken up by

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multimedia applications, transmitting digital audio and video. Traditional networking protocols are not suitable for this as they do not provide guaranteed bandwidth, end-to-end delay or delay jitter, nor do

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they have addressing schemes or routing algorithms for multicast connections. High-Speed Networking for Multimedia Applications is a collection of high quality research papers which address

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these issues, providing interesting and innovative solutions. It is an essential reference for engineers and computer scientists working in this area. It is also a comprehensive text for

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graduate students of high-speed networking and multimedia applications. Leading authorities deliver the commandments for designing high-speed networks There are no end of books touting the

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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

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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

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systems. Using real-world implementation examples to illustrate their points, the authors cover all aspects of network design, including network components, network architectures, topologies,

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protocols, application interactions, and more.

This authoritative handbook, contributed to by a team of international experts, covers the most dynamic areas in the changing telecommunications

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landscape. Written for telecommunications specialists who implement the new technologies, The CRC Handbook of Modern Telecommunications is an excellent companion volume to

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the authors' The
Telecommunicatio
Concentrates on quantitative
methods such as modelling and
performance analysis
Frame Relay Networks
LTE, WiMAX and WLAN

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Network Design, Optimization
and Performance Analysis
Understanding Privacy Threats,
Technology, and Regulations
Based on Standards and Best
Practices
High-speed Networks and

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Internets

Technology and Tools

**This book constitutes the thoroughly
refereed postproceedings of the First
International Conference on Embedded
Software and Systems, ICESS 2004,**

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held in Hangzhou, China in December 2004. The 80 revised full papers presented together with the abstracts of 4 keynote speeches and 4 invited talks were thoroughly reviewed and selected from almost 400 submissions. The papers are organized in topical sections

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on distributed embedded computing,
embedded systems, embedded
hardware and architecture, middleware
for embedded computing, mobile
systems, transducer network,
embedded operating system, power-
aware computing, real-time system,

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embedded system verification and testing, and software tools for embedded systems.

Foundations of Modern Networking is a comprehensive, unified survey of modern networking technology and applications for today's professionals,

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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

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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

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