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Data Communications

Business Users Approach

And Computer

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The first book, by the leading experts, on this rapidly developing field with applications to security, smart homes, multimedia, and environmental monitoring
Comprehensive coverage of fundamentals, algorithms, design methodologies, system implementation issues, architectures, and

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applications Presents in detail the latest developments in multi-camera calibration, active and heterogeneous camera networks, multi-camera object and event detection, tracking, coding, smart camera architecture and middleware This book is the definitive reference in multi-camera networks. It gives clear guidance on the conceptual and implementation issues involved in the design and operation of multi-

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camera networks, as well as presenting the state-of-the-art in hardware, algorithms and system development. The book is broad in scope, covering smart camera architectures, embedded processing, sensor fusion and middleware, calibration and topology, network-based detection and tracking, and applications in distributed and collaborative methods in camera networks. This book will be an ideal reference for university

researchers, R&D engineers, computer engineers, and graduate students working in signal and video processing, computer vision, and sensor networks. Hamid Aghajan is a Professor of Electrical Engineering (consulting) at Stanford University. His research is on multi-camera networks for smart environments with application to smart homes, assisted living and well being, meeting rooms, and avatar-based

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communication and social interactions. He is

Editor-in-Chief of

Journal of Ambient

Intelligence and Smart

Environments, and was

general chair of

ACM/IEEE ICDSC 2008.

Andrea Cavallaro is

Reader (Associate

Professor) at Queen

Mary, University of

London (QMUL). His

research is on target

tracking and audiovisual

content analysis for

advanced surveillance

and multi-sensor

systems. He serves as

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Associate Editor of the IEEE Signal Processing Magazine and the IEEE Trans. on Multimedia, and has been general chair of IEEE AVSS 2007, ACM/IEEE ICDSC 2009 and BMVC 2009. The first book, by the leading experts, on this rapidly developing field with applications to security, smart homes, multimedia, and environmental monitoring Comprehensive coverage of fundamentals, algorithms, design methodologies, system

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implementation issues, architectures, and applications Presents in detail the latest developments in multi-camera calibration, active and heterogeneous camera networks, multi-camera object and event detection, tracking, coding, smart camera architecture and middleware

The usage of data communications and computer networks are ever increasing. It is one of the few technological areas

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which brings benefits to most of the countries and the peoples of the world. Without it many industries could not exist. It is the objective of this book to discuss data communications in a readable form that students and professionals all over the world can understand. As much as possible the text uses diagrams to illustrate key points. Most currently available data communications books

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take their view point from either a computer scientists top-down approach or from an electronic engineers bottom-up approach. This book takes a practical approach and supports it with a theoretical background to create a textbook which can be used by electronic engineers, computer engineers, computer scientists and industry professionals. It discusses most of the current and future key data communications

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technologies, including:

- Data Communications Standards and Models;
- Local Area Networks (Ethernet, Token Ring and FDDI);
- Transmission Control Protocol/Internet Protocol (TCP/IP);
- High-level Data Link Control (HDLC);
- X.25 Packet-switching;
- Asynchronous Communications (RS-232) and Modems;
- Pulse Coded Modulation (PCM);
- Integrated Digital Services Network (ISDN);
- Asynchronous Transfer

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Mode (ATM); • Error Control; • X-Windows.

The chapters are ordered in a possible structure for the presentation of the material and have not been sectioned into data communications areas.

The use of data communications and computer networks is constantly increasing, bringing benefits to most of the countries and peoples of the world, and serving as the lifeline of industry. Now there is a

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textbook that discusses data communications and networking in a readable form that can be easily understood by students who will become the IS professionals of the future. Advanced Data Communications and Networks provides a comprehensive and practical treatment of rapidly evolving areas. The text is divided into seven main sections and appendices: " General data compression " Video, images, and sound " Error coding and

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encryption " TCP/IP and the Internet " Network operating systems " LANs/WANs " Cables and connectors Other topics include error detection/correction, image/video compression, digital video, digital audio, TCP/IP, HTTP, electronic mail, HTML, Windows NT, NetWare, UNIX, Fast Ethernet, ATM, FDDI, and much more. Written by a respected academician who is also an accomplished engineer, this textbook uses the

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author's wide practical experience in applying techniques and theory toward solving real engineering problems. It also includes an accompanying Web site that contains software, source code, and other supplemental information.

Business Data
Communications and
Networking, 14th Edition
presents a classroom-
tested approach to the
subject, combining
foundational concepts,
practical exercises, and

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real-world case studies. The text provides a balanced, well-rounded presentation of data communications while highlighting its importance to nearly every aspect of modern business. This fully-updated new edition helps students understand how networks work and what is required to build and manage scalable, mobile, and secure networks. Clear, student-friendly chapters introduce, explain, and summarize

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fundamental concepts and applications such as server architecture, network and transport layers, network design processes and tools, wired and wireless networking, and network security and management. An array of pedagogical features teaches students how to select the appropriate technologies necessary to build and manage networks that meet organizational needs, maximize competitive advantage, and protect

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networks and data from
cybersecurity threats.

Discussions of real-
world management and
technical issues, from
improving device
performance to assessing
and controlling costs,
provide students with
insight into the daily
networking operations of
actual businesses.

Interconnections for
Computer Communications
and Packet Networks
Data Communications and
Computer Networks:

A Systems Approach

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Primarily intended as a text for undergraduate courses in Electronics and Communications Engineering, Computer Science, IT courses, and Computer Applications, this up-to-date and accessible text gives an indepth analysis of data communications and computer networks in an easy-to-read style. Though a new title, it is a completely revised and fully updated version of the author's earlier book Data Communications. The rapid strides made during the last decade in the fields of data

communication and networking, and the close link between these two subjects have prompted the author to add several chapters on computer networks in this text. The book gives a masterly analysis of topics ranging from the principles of data transmission to computer networking applications. It also provides standard protocols, thereby enabling to bridge the gap between theory and practice. What's more, it correlates the network protocols to the concepts, which are explained with the help of

numerous examples to facilitate students' understanding of the subject. This well-organized text presents the latest developments in the field and details current topics of interest such as Multicasting, MPLS, IPv6, Gigabit Ethernets, IPSec, SSL, Auto-negotiation, Wireless LANs, Network security, Differentiated services, and ADSL. Besides students, the practicing professionals would find the book to be a valuable resource. The book, in its second edition introduces a full chapter on Quality of

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Service, highlighting the meaning, parameters and functions required for quality of service. This book is recommended in

Kaziranga University, Nagaland, IIT Guwahati, Assam and West Bengal University of Technology (WBUT), West Bengal for B.Tech. Key Features • The book is self-contained and student friendly. • The sequential organization lends flexibility in designing courses on the subject. • Large number of examples, diagrams and tables illustrate the concepts discussed in the

text. • Numerous exercises (with answers), a list of acronyms, and references to protocol standards.

This fully revised and updated book, now in its Fourth Edition, continues to provide a comprehensive coverage of data

communications and computer networks in an easy to understand style.

The text places as much emphasis on the application of the concepts as on the concepts themselves. While the theoretical part is intended to offer a solid foundation of the basics so as to equip the student for

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further study, the stress on the applications is meant to acquaint the student with the realistic status of data communications and computer networks as of now. Audience Intended primarily as a textbook for the students of computer science and engineering, electronics and communication engineering, master of computer applications (MCA), and those offering IT courses, this book would also be useful for practising professionals. NEW TO THIS EDITION • Three new chapters on: o Network

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**Architecture and OSI Model
o Wireless Communication
Technologies o Web
Security • Appendix on
Binary and Hexadecimal
Numbering Key features •
Illustrates the application
of the principles through
highly simplified block
diagrams. • Contains a
comprehensive glossary
which gives simple and
accurate descriptions of
various terms. • Provides
Questions and Answers at
the end of the book which
facilitate quick revision of
the concept.**

**Data and Computer
Communications, 10e, is a**

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two-time winner of the best Computer Science and Engineering textbook of the year award from the Textbook and Academic Authors Association. It is ideal for one/two-semester courses in Computer Networks, Data Communications, and Communications Networks in CS, CIS, and Electrical Engineering departments. This book is also suitable for Product Development personnel, Programmers, Systems Engineers, Network Designers and others involved in the design of data

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communications and networking products. With a focus on the most current technology and a convenient modular format, this best-selling text offers a clear and comprehensive survey of the entire data and computer communications field. Emphasizing both the fundamental principles as well as the critical role of performance in driving protocol and network design, it explores in detail all the critical technical areas in data communications, wide-area networking, local area

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**networking, and protocol
design.**
Business Users Approach

What every electrical engineering student and technical professional needs to know about data exchange across networks
While most electrical engineering students learn how the individual components that make up data communication technologies work, they rarely learn how the parts work together in complete data communication networks. In part, this is due to the fact that until now there have been no texts on data

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communication networking written for undergraduate electrical engineering students. Based on the author's years of classroom experience, Fundamentals of Data Communication Networks fills that gap in the pedagogical literature, providing readers with a much-needed overview of all relevant aspects of data communication networking, addressed from the perspective of the various technologies involved. The demand for information exchange in networks continues to grow at a staggering rate, and that

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demand will continue to mount exponentially as the number of interconnected IoT-enabled devices grows to an expected twenty-six billion by the year 2020. Never has it been more urgent for engineering students to understand the fundamental science and technology behind data communication, and this book, the first of its kind, gives them that understanding. To achieve this goal, the book: Combines signal theory, data protocols, and wireless networking concepts into one text Explores the full

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***range of issues that affect
common processes such as***

media downloads and

online games Addresses

services for the network

layer, the transport layer,

and the application layer

Investigates multiple access

schemes and local area

networks with coverage of

services for the physical

layer and the data link layer

Describes mobile

communication networks

and critical issues in

network security Includes

problem sets in each

chapter to test and fine-

tune readers'

understanding

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Fundamentals of Data Communication Networks is a must-read for advanced undergraduates and graduate students in electrical and computer engineering. It is also a valuable working resource for researchers, electrical engineers, and technical professionals.

Data Communications and Computer Networks: A

Business User's Approach

Introduction to Data

Communications and

Computer Networks

Data Communications and

Networking

Data Communication and

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***Computer Network: Easy to
Learn and Simple to
Develop***

Balancing the most technical
concepts with practical everyday
issues, DATABASE

COMMUNICATIONS AND

COMPUTER NETWORKS, 8e

provides thorough coverage of the
basic features, operations, and
limitations of different types of
computer networks--making it the
ideal resource for future business
managers, computer programmers,
system designers, as well as home
computer users. Offering a
comprehensive introduction to
computer networks and data
communications, the book includes
coverage of the language of

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computer networks as well as the effects of data communications on

business and society. It provides

full coverage of wireless

technologies, industry

convergence, compression

techniques, network security, LAN

technologies, VoIP, and error

detection and correction. The

Eighth Edition also offers up-to-the-

minute coverage of near field

communications, updated USB

interface, lightning interface, and

IEEE 802.11 ac and ad wireless

standards, firewall updates, router

security problems, the Internet of

Things, cloud computing, zero-

client workstations, and Internet

domain names. Important Notice:

Media content referenced within

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the product description or the product text may not be available in the ebook version.

This complete introduction to data communications is written to bring a fresh, readable, business-oriented perspective to the technology that lies at the heart of the telecommunications revolution.

Features more end-of-chapter exercises and new coverage of Bluetooth, V.92, and wireless technologies.

Complete coverage of the basics as well as extensive technical information make this easy-to-read book valuable for electronics technicians and technologists looking to enhance their skills in data communications and

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networking. There is detailed coverage of protocols at all levels of the OSI model. There's an in-depth look at the use of the Internet and network security as well as the system underlying these subjects. And an online companion Web site provides even more information.

Fully revised and updated, the fourth edition includes new chapters on broadband multi-service networks, a revamped chapter with extended and updated coverage of FDDI, and a new section on Fast Ethernet, covering 100BaseT, 100Base X, wireless LANs, and several additional candidate technologies.

Data and Network Communications

Read Online Data Communications And Computer Networks A Business Users Approach Computer Networking Multi-Camera Networks

The Complete Reference Data Communications and Computer Networks

Data Communication Principles for Fixed and Wireless Networks focuses on the physical and data link layers. Included are examples that apply to a diversified range of higher level protocols such as TCP/IP, OSI and packet based wireless networks.

Performance modeling is introduced for beginners requiring basic mathematics. Separate discussion has been included on wireless cellular networks

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performance and on the simulation of networks. Throughout the book, wireless LANS has been given the same level of treatment as fixed network protocols. It is assumed that readers would be familiar with basic mathematics and have some knowledge of binary number systems. Data Communication Principles for Fixed and Wireless Networks is for students at the senior undergraduate and first year graduate levels. It can also be used as a reference work for professionals working in the areas of data networks, computer networks and internet protocols.

Principles of Computer

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Networks and Communications provides a blend of foundation material and historical context that follows a developmental approach to understanding network and communications technology. Following a discourse that keeps the business student's needs squarely in mind, M. Barry Dumas and Morris Schwartz create a text that allows the student to develop a comprehension of the subject matter and an overall appreciation for the telecommunications field. Thoroughly updated for currency, this book offers a clear presentation of data communications and network

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fundamentals. Featuring a wide array of applications, the book fully explains concepts and supports them with case studies or descriptions of specific software and other products. Students learn the protocols of analog and digital signals, data compression, data integrity, data security, local area networks, asynchronous transfer mode (ATM), and much more. The third edition includes important information on the latest developments of the Internet.

Appropriate for a first course on computer networking, this textbook

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describes the architecture and function of the application, transport, network, and link layers of the internet protocol stack, then examines audio and video networking applications, the underpinnings of encryption and network security, and the key issues of network management. Th

Business Data Communications and Networking

Data Communications,

Computer Networks, and Open Systems

A Business User's Approach

DATA COMMUNICATION AND

COMPUTER NETWORKS

Data Communication and Computer Network: Easy to Learn and Simple to

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Develop is ideal for self-study, as it covers all essential topics in depth and is easy to understand. The author's unique approach thoroughly illustrates the theoretical and practical aspects of data communication and the computer network, and the technologies and the tools that academic and network managers simply must know. This textbook is perfect for students pursuing their B.E., B.Tech., M.C.A., B.Sc. (Computer Science), or BCA degrees. It presupposes no prior experience with data communication and computer network on the part of the reader and serves as a comprehensive introduction to data communication and computer network concepts and network application development. Data Communication, Data Representation

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Layered Tasks, TCP/IP Protocol Suite,
Physical Layer and Media,

Transmission Impairment,

Multiplexing, Data Link Layer, UDP

and Application Layer are some of the
concepts that the book deals with.

Intended primarily as a textbook for
the students of computer science and
engineering, electronics and

communication engineering, master
of computer applications (MCA), and

those offering IT courses, the book
provides a comprehensive coverage

of the subject. Basic elements of
communication such as data, signal

and channel alongwith their

characteristics such as bandwidth, bit
interval and bit rate have been

explained. Contents related to guided
and unguided transmission media,

Bluetooth wireless technology,

developed for Personal Area Network

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(PAN) and issues related to routing covering popular routing algorithms namely RIP, OSPF and BGP, have been introduced in the book. Various aspects of data link control alongwith their application in HDLC network and techniques such as encoding, multiplexing and encryption/decryption are presented in detail. Characteristics and implementation of PSTN, SONET, ATM, LAN, PACKET RADIO network, Cellular telephone network and Satellite network have also been explained. Different aspects of IEEE 802.11 WLAN and congestion control protocols have also been discussed in the book. Key Features

- Each chapter is divided into section and subsection to provide flexibility in curriculum design.
- The text contains numerous solved examples,

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and illustrations to bring clarity to the subject and enhance its

understanding. • Review questions given at the end of each chapter, are meant to enable the teacher to test student's grasping of the subject.

Introduction, datacommunications, information theory, introduction to local area networks. Internet protocols ...

Data communications and computer networks are vital in today's business world. DATABASE COMMUNICATIONS AND COMPUTER NETWORKS, 7th Edition balances technical and practical everyday aspects of data communications for future business managers, computer programmers, and system designers needing a thorough understanding of basic features, operations, and limitations of different types of computer

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networks. The Seventh Edition retains many of the elements that made past editions so popular, including readability and coverage of the most current technologies. This book offers full coverage of wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, and error detection and correction.

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Applied Data Communications and Networks

Introduction to Data Communications and Networking

DATA COMMUNICATIONS AND COMPUTER NETWORKS

Study Companion

Data communications and computer

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networks are vital in today's business world. Whether your career entails

business management, computer programming, system design, or a related area, FUNDAMENTALS OF NETWORKING AND DATA

COMMUNICATIONS, 7E, International Edition will give you the thorough understanding you need of basic features, operations, and limitations of different types of computer networks.

The Seventh Edition retains many of the elements that made past editions so popular, including readability, coverage of the most current technologies, and a balanced presentation of both technical and practical everyday aspects of data communications. This book offers full coverage of wireless technologies, industry convergence, compression

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techniques, network security, LAN technologies, VoIP, and error detection and correction.

The protocols and standards for networking are numerous and complex. Multivendor internetworking, crucial to present day users, requires a grasp of these protocols and standards. Data and Computer Communications: Networking and Internetworking, a comprehensive text/reference, brings clarity to all of the complex issues involved in networking activity, providing excellent instruction for students and an indispensable reference for practitioners. This systematic work answers a vast array of questions about overall network architecture, design, protocols, and deployment issues. It offers a practical, thorough treatment of the applied

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concepts of data and computer communication systems, including signaling basics, transmission of digital signals, and layered architecture. The book features in-depth discussions of integrated digital networks, integrated services digital networks, and high-speed networks, including currently evolving technologies, such as ATM switching, and their applications in multimedia technology. It also presents the state-of-the-art in Internet technology, its services, and implementations. The balance of old and new networking technologies presents an appealing set of topics for both undergraduate students and computer and networking professionals. This book presents all seven layers of OSI-based networks in great detail, covering services, functions,

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design issues, interfacing, and protocols.

Business Users Approach

With its introduction to the basic concepts and practical aspects of the field, Data and Computer Communications:

Networking and Internetworking helps you keep up with the rapidly growing and dominating computer networking technology.

Data Communications and Computer Networks: A Business User's Approach
Cengage Learning

Data Communications and Networking is designed to help students understand the basics of data communications and networking, and the protocols used in the Internet in particular by using the protocol layering of the Internet and TCP/IP protocol suite. Technologies related to data communication and networking may be the fastest growing in

today's culture. The appearance of some new social networking applications is a testimony to this claim. In this Internet-oriented society, specialists need to be trained to run and manage the Internet, part of the Internet, or an organization's network that is connected to the Internet. As both the number and types of students are increasing, it is essential to have a textbook that provides coverage of the latest advances, while presenting the material in a way that is accessible to students with little or no background in the field. Using a bottom-up approach, Data Communications and Networking presents this highly technical subject matter without relying on complex formulas by using a strong pedagogical approach supported by more than 830 figures. Now in its Fifth Edition, this

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textbook brings the beginning student right to the forefront of the latest

advances in the field, while presenting the fundamentals in a clear,

straightforward manner. Students will

find better coverage, improved figures and better explanations on cutting-edge

material. The "bottom-up" approach

allows instructors to cover the material in one course, rather than having

separate courses on data

communications and networking.

For Fixed and Wireless Networks

Fundamentals of Networking and Data

Communications

An OSI Framework

Principles of Computer Networks and

Communications

Data Communication And

Computer Networks Deals With

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**Various Aspects Of The Subject Vis-
À-Vis The Emerging Trends In
Network-Centric Information**

**Technology. It Provides The Reader
With An In-Depth Framework Of
The Fundamental Concepts.**

Networking Involves

**Whether you are preparing for a
career as a business manager,
computer programmer or system
designer, or you simply want to be
an informed home computer user,**

**West's DATA COMMUNICATIONS
AND COMPUTER NETWORKS, 9th
Edition provides an understanding**

**of the essential features,
operations and limitations of
today's computer networks. You
learn about systems both on
premises and in the cloud as the
author balances technical concepts
with practical, everyday issues.**

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Updates address the latest developments and practices in cloud business principles and security techniques, software-defined networking, 5G, the Internet of Things, data analytics and supporting remote workforces. This edition also covers the CompTIA's Cloud Essentials+ exam to help you prepare for this vendor-neutral, business-oriented cloud computing certification. Hands-on learning features and thought-provoking content also guide you through virtual networking technologies, industry convergence and wired and wireless LAN technologies. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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This is a thorough introduction to the concepts underlying networking technology, from physical carrier media to protocol suites (for example, TCP/IP). The author includes historical material to show the logic behind the development of a given mechanism, and also includes comprehensive discussions of increasingly important material, such as B-ISDN (Broadband Integrated Services Digital Network) and ATM (Asynchronous Transmission Mode).

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. 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 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 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; 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 classes in computer networking. It will also be useful for industry professionals retraining for network-related assignments,

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as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking.

Completely updated 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 center of attention Free downloadable

network simulation software and lab experiments manual available

Computer Networks

Data Communication Principles

Data Communications and

Computer Networks: A Business User's Approach

Networking and Internetworking

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Data Communications and Computer Networks is designed as quick reference guide for important undergraduate computer courses. The organized and accessible format of this book allows students to learn the important concepts in an easy-to-understand, This book introduces different interconnection networks applied to different systems. Interconnection networks are used to communicate processing units in a multi-processor system, routers in communication networks, and servers in data centers.

Queuing techniques are applied to interconnection networks to support a higher utilization of resources. There are different queuing strategies, and these determine not only the performance of the interconnection network, but also the set of requirements to make them work effectively and their cost. Routing algorithms are used to find routes to destinations and directions in what information travels. Additional properties, such as avoiding deadlocks and congestion, are sought. Effective routing algorithms

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need to be paired up with these networks. The book will introduce the most relevant interconnection networks, queuing strategies, and routing algorithm. It discusses their properties and how these leverage the performance of the whole interconnection system. In addition, the book covers additional topics for memory management and congestion avoidance, used to extract higher performance from the interconnection network.

Whether you are preparing for a career as a business manager, computer

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programmer or system designer, or you simply want to be an informed home computer user, West's DATA COMMUNICATIONS AND COMPUTER NETWORKS, 9th Edition provides an understanding of the essential features, operations and limitations of today's computer networks. You learn about systems both on premises and in the cloud as the author balances technical concepts with practical, everyday issues. Updates address the latest developments and practices in cloud business principles and

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security techniques, software-defined networking, 5G, the

Internet of Things, data

analytics and supporting

remote workforces. This

edition also covers the

CompTIA's Cloud Essentials+

exam to help you prepare for

this vendor-neutral, business-

oriented cloud computing

certification. Hands-on

learning features and thought-

provoking content also guide

you through virtual networking

technologies, industry

convergence and wired and

wireless LAN technologies.

Advanced Data

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Networks
For Computer Scientists and
Engineers
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