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*\u0026 Computer
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Network Protocols

0026 Communications

(Part 1) protocols and

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communication lectures

| Bhanu priya Data

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Forouzan Book Ch 1

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to Data Communication

and Computer Networks

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Lecture 3

Multiple Access

Protocols Data

Communication in

Computer Network:

Definition of

Communication

(Computer Science)

Data Communication

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Data communications refers to the transmission of this digital data between two or more computers and a computer network or data network is a telecommunications network that allows computers to exchange data. The physical connection between networked computing devices is established

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using either cable media
or wireless media.

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Computer Network~~
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A computer network is a
group of computer
systems and other
computing hardware
devices that are linked
through the
communication
channels. A Computer

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Network enables file sharing across the network. It helps the web information to traverse more easily and conveniently. It allows the sharing of software and operating systems on remote systems.

Based on the area of networking, Computer Networks are of several types. Data

Communication: When

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we communicate, we
are sharing information.

Difference Between Computer Network and Data Communication ...

Data Communication
and Computer Network
2 All devices connected
together with a single
device, creating star-like
structure. All devices
connected arbitrarily
using all previous ways

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to connect each other,
resulting in a hybrid
structure.

Administration From an
administrator's point of
view, a network can be
private network which

~~Data Communication and Computer Network~~

Let us look at the
differences between
Computer Network and
Data Communication: A

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Computer network is basically a set or group of a computer system and other related hardware devices which are... There are different types of computer networks that are used in the current industry to process the ...

~~Computer Network vs
Data Communication |
Top 7 Valuable ...~~

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Data communications:
communication
hardware technologies
including local area and
longhaul network
hardware, circuit and
packet switching,
interfaces between
computer and network
hardware, and
performance issues.

~~Data Communication
and Computer Networks~~

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Data communications refers to the exchange of this digital data between two or more device via some form of transmission medium such as a wire cable. A computer network is a telecommunications network that allows computers to exchange data. - Data

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communications on
business and society.

~~Data Communications~~

~~and Computer~~

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~~Networks: A Business
User ...~~

Data communication
and terminal equipment

1.7. Data Representation

Data representation is defined as the methods used to represent information in computers. Different types of data can be stored in...

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~~Computer & Networking~~

A computer network is a set of devices connected through links. A node can be computer, printer, or any other device capable of sending or receiving the data. The links connecting the nodes are known as communication channels. Computer

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Network uses distributed processing in which task is divided among several computers.

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This Portion of Data
Communication and
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more frequently asked
MCQs (Multiple Choice
Questions and Answers)

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computer network
permits sharing of
Resources;

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Data communications
refers to the

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transmission of this digital data between two or more computers and a computer network or data network is a telecommunications network that allows computers to exchange data. The physical connection between networked computing devices is established using either cable media or wireless media.

Access PDF Data Communication And Computer Networking and Communication

A1: Transmission of the digital data between two or more computer systems is known as data communication.

The telecommunication network that allows any computers to exchange the data is known as computer network or data network. Cable

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media or wireless media helps to establish the physical connection between computing device network.

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programming articles,
quizzes and
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Data communication
refers to the exchange of
data between a source
and a receiver via form

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of transmission media
such as a wire cable.

Data communication is
said to be local if
communicating devices
are in the same building
or a similarly restricted
geographical area. The
meanings of source and
receiver are very simple.

~~What is Data
Communication?~~

~~Computer Notes~~

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Network security is used on a variety of computer networks, both public and private, to secure daily transactions and communications among businesses, government agencies and individuals. Network surveillance. Network surveillance is the monitoring of data being transferred over computer networks such

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Network
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as the Internet. The monitoring is often done surreptitiously and may be done by or at the behest of governments, by corporations, criminal organizations, or individuals.

~~Computer network~~

~~Wikipedia~~

Computer network is a telecommunication channel using which we

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can share data with other computers or devices, connected to the same network. It is

also called Data Network. The best example of computer network is Internet.

Computer network does not mean a system with one Control Unit connected to multiple other systems as its slave.

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~~Introduction To
Computer Networks |
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Examinations. ... If
single computer
network is divided into
segments and router are
added between them it
forms an.

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ideal for self-study, as it

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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

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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

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concepts and network
application
development. Data
Communication, Data
Representation 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

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And the book deals with.

Network

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

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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

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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

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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,

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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

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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

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standards.

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Networks Deals With
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The Reader With An In-
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The Fundamental

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Involves

Balancing the most
technical concepts with
practical everyday
issues, DATABASE

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provides thorough
coverage of the basic
features, operations, and
limitations of different

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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

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language of 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-

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the-minute coverage of
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updated USB interface,
lightning interface, and
IEEE 802.11 ac and ad
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cloud computing, zero-
client workstations, and
Internet domain names.

Important Notice:

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The protocols and standards for networking are numerous and complex. Multivendor internetworking, crucial to present day users,

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requires a grasp of these protocols and standards.

Data and Computer
Communications:

Networking and
Internetworking, a
comprehensive
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complex issues involved
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offers a practical,
thorough treatment of
the applied concepts of
data and computer
communication systems,
including signaling

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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

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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

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of OSI-based networks
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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

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technologies work, they rarely learn how the parts work together in complete data

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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

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involved. The demand for information exchange in networks continues to grow at a staggering rate, and that 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

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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
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of issues that affect
common processes such
as media downloads and
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services for the network
layer, the transport
layer, and the
application layer

Investigates multiple
access schemes and
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coverage of services for
the physical layer and
the data link layer

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networks and critical
issues in network
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problem sets in each
chapter to test and fine-
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understanding
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Networks is a must-read
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undergraduates and

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electrical and computer
engineering. It is also a
valuable working
resource for researchers,
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technical professionals.

What every electrical
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technical professional
needs to know about
data exchange across
networks While most

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students learn how the
individual components
that make up data
communication
technologies work, they
rarely learn how the
parts work together in
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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 demand will continue to mount exponentially as the number of interconnected IoT-

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the physical layer and
the data link layer

Describes mobile
communication

networks and critical
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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
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undergraduates and
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electrical and computer
engineering. It is also a
valuable working
resource for researchers,
electrical engineers, and
technical professionals.

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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

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And communication such as data, signal and channel along with their characteristics such as bandwidth, bit internal and bit rate have been explained. Contents related to guided and unguided transmission media, Bluetooth wireless technology, developed for Personal Area Network (PAN) and issues related to

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And 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.

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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

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Chapter is divided into section and subsection to provide flexibility in curriculum design. •

The text contains numerous solved examples, and illustrations to bring clarity to the subject and enhance its understanding. •

Review questions given at the end of each chapter, are meant to

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And the teacher to test
student's grasping of
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