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Q2-5. a. At the application layer, the unit of data is a message. b. At the network layer, the unit of data is a datagram. c. At the data-link layer, the unit of data is a frame. Q2-6. A frame is a link-layer data unit. It encapsulates a data unit coming from the network layer. In this case, the

data unit is a datagram. Q2-7.

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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).

Forouzan's Business Data Communications is designed for use in a data communications course for business majors. To this end, the book blends an accessible technical presentation of important networking concepts with many business applications. Pedagogy is a key component of the Forouzan approach. Each chapters is mapped out with chapter objectives and an overview at the beginning. Throughout the chapters, Forouzan makes use of Business Emphasis boxes to pull out important business applications. Technical Emphasis Boxes are also used to provide optional, additional technical material. Each chapter ends with a running case study, as well as extensive problem sets. Business Data Communications is supported by a complete supplements package. This includes: PowerPoints, solutions, quizzes, animations of key concepts, and a testbank. All of the resources make it easy to get started teaching with the book, as well as provide additional resources for students.

As the world grows increasingly interconnected, data communications has become a critical aspect of business operations. Wireless and mobile technology allows us to seamlessly transition from work to play and back again, and the Internet of things has brought our appliances, vehicles, and homes into the network; as life increasingly takes place online, businesses recognize the opportunity for a competitive advantage. Today's networking professionals have become central to nearly every aspect of business, and this book provides the essential foundation needed to build and manage the scalable, mobile, secure networks these businesses require. Although the technologies evolve rapidly, the underlying concepts are more constant. This book combines the foundational concepts with practical exercises to provide a well-grounded approach to networking in business today. Key management and technical issues are highlighted and discussed in the context of real-world applications, and hands-on exercises reinforce critical concepts while providing insight into day-to-day operations. Detailed technical descriptions reveal the tradeoffs not presented in product summaries, building the analytical capacity needed to understand, evaluate, and compare current and future technologies.

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 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.

Ubuntu Unleashed 2021 Edition is filled with unique information for everyone who wants to make the most of the Ubuntu Linux operating system, including the latest in Ubuntu mobile development. This new edition has been thoroughly updated by a long-time Ubuntu community leader to reflect the new Ubuntu 20.04 and the forthcoming Ubuntu 20.10 and 21.04 releases. Former Ubuntu Forum administrator Matthew Helmke covers all you need to know about Ubuntu 20.04 installation, configuration, productivity, multimedia, development, system administration, server operations, networking, virtualization, security, DevOps, and more - including intermediate-to-advanced techniques you won't find in any other book. Helmke introduces Ubuntu's key productivity and Web development tools, programming languages, hardware support, and more. You'll find new and improved coverage of Ubuntu's Unity interface, various types of servers, software repositories, database options, virtualization and cloud services, development tools, monitoring, troubleshooting, Ubuntu's push into mobile and other touch screen devices, and much more. The companion DVD includes the full Ubuntu 20.04 distribution as well as the complete LibreOffice office suite and hundreds of additional programs and utilities. Ubuntu Unleashed provides detailed information on how to...

- Configure and customize the Unity desktop
- Get started with multimedia and productivity applications, including LibreOffice
- Manage Linux services, users, and software packages
- Administer and run Ubuntu from the command line
- Automate tasks and use shell scripting
- Provide secure remote access and configure a secure VPN
- Manage kernels and modules
- Administer file, print, email, proxy, LDAP, DNS, and HTTP servers (Apache, Nginx, or alternatives)
- Learn about new options for managing large numbers of servers
- Work with databases (both SQL and the newest NoSQL alternatives)
- Get started with virtualization
- Build a private cloud with Juju and Charms
- Learn the basics about popular programming languages including Python, PHP, Perl, and new alternatives such as Go and Rust
- Learn about Ubuntu's work toward usability on touch-screen and phone devices

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 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 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 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

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.

Local Area Networks (LANs) have become an integral part of communication in today's world. The establishments that use LAN applications include businesses, educational facilities, hospitals, stock exchanges and warehouses. This book offers reader-friendly, comprehensive coverage of LAN technologies, teaching the reader how to use them in real-world applications. The text is ideal for students both in the classroom and later as a reference. Forouzan motivates topics by practical applications, and his liberal use of figures makes difficult technical topics easier to grasp by providing an intuitive, visual representation of concepts. Extensive practice sets are also provided at the end of each chapter, which reinforce what the student has learned The book is also up-to-date, presenting indepth material on such current topics as Gigabit Ethernet, ATM LAN, Wireless LAN, VPN and VLAN.

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