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nodes: node-to-node communication).

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1. CHAPTER 1 Introduction Solutions to Review Questions and Exercises Review Questions. 1. The five components of a data communication system are the sender, receiver, transmission medium, message, and protocol. 2. The advantages of distributed processing are security, access to distributed data- bases, collaborative processing, and faster problem solving. 3. The three criteria are performance ...

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and N bits can have 2^N values.

Data Communication and Networks

1.1 WHY STUDY DATA COMMUNICATIONS 1 1.2 DATA COMMUNICATION 2 Components 3 1.3 NETWORKS 4 Distributed Processing 4 Network Criteria 5 Applications 6 1.4 PROTOCOLS AND STANDARDS 7 Protocols 7 Standards 8 1.5 STANDARDS ORGANIZATIONS 9 Standards Creation Committees 9 Forums 12 Regulatory Agencies 13 1.6 STRUCTURE OF THE BOOK 13 1.7 KEY TERMS AND ...

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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

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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.

As the world grows increasingly interconnected, data communications has become a critical aspect of business operations.

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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

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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.

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edition includes updated information on 100 MBps and 1000 MBps Ethernet, RIP and OSPF router technologies, OLE for Process Control (OPC), ActiveX, and .NET, A(TM), virtual private networks, and more. A complete glossary and index make the book especially useful as a handy desk reference. The growth and application of data communications in the industrial environment as well as emerging technologies are discussed. Contents: Historical Overview, Communication Foundations, Physical Layer and Data Link Standards, Local Area Networks, Network Operating Systems and LAN Management, Industrial Networks and Applications, Wide Area Networks.

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