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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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Networking in the Internet Age¹, Wiley, 2002

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The usage of data communications and computer
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networks are ever in creasing. It is one of the few technological areas 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 dia grams to illustrate key points. Most currently available data communications books take their view point from either a computer scientists top-down approach or from an electronic engineers bottom-up approach. This

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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 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

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(PCM); • Integrated Digital Services Network (ISDN); • Asynchronous Transfer 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.

This practical introduction to data communications takes a "top down" approach that starts by first determining business objectives and then developing a system to meet those objectives. Updated throughout, the second edition features new coverage of

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network security, network management, enterprise networking and the Internet, Remote Access, and Wireless Networking. The business cases have been updated and more examples and actual networking problems have been added.

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

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areas.

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

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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.

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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.

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 textbook that discusses data communications and networking in a readable form that can be easily understood by students who will become the IS

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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 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

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by a respected academician who is also an accomplished engineer, this textbook uses the 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.

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

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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

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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

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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

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

Introduces aspects on security threats and their countermeasures in both fixed and wireless networks, advising on how countermeasures can provide secure communication infrastructures. Enables the reader to understand the risks of inappropriate network security, what mechanisms and protocols can be deployed to counter these risks, and how these mechanisms

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and protocols work.

- * Provides frameworks and methodology for solving problems as technology continues to advance
- * Starts with the overall business problem, and then shows how technology can solve the problem
- * Provides an in-depth applied understanding of the technology covered and is targeted to the IT employees who actually build the networks
- * Business-oriented, problem-solving approach, including real business case studies stressing the business impact of data communications

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Keep Up With the Rapid Changes in Data Communications and Networking As you look at the cover, you may be wondering what an overnight delivery service has to do with data communications and networking. While following this cumulative case study in each chapter, you'll discover how to successfully apply the fundamental concepts behind the latest technologies and applications to business. You'll be introduced to these concepts throughout the text from this applied business perspective. Inside, you'll find the latest advances with the Internet, Internet access (cable modems,) DSL), local

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area and backbone networks (gigabit ethernet, ATM), and wide area networks (ATM, SONET, SMDS). A greater emphasis is placed on the changing nature of the Internet and the increased importance of electronic commerce in business. And up-to-date articles on the latest innovations are provided at our Web site at www.wiley.com/college/dennis/datacomm6e.

The 11th edition of FitzGerald and Dennis? Business Data Communications and Networking focuses on more comprehensive updating, as well as more hands-on and applied exercises.

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The new edition has more in-depth coverage of routing; revisions and updates on wireless; additional cases for team-based learning; and more hands-on lab exercises. In general, this text has more details in many chapters, specific updates, and updated illustrations.

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