

Data Communications And Networking By Behrouz A Forouzan 2nd Edition

This revised edition with new technologies, new applications, and new examples, offers balanced coverage of the technical and managerial aspects of data communications to help understand how networks operate and how to successfully apply them. It features a chapter on wireless LANS, an expansion of the security chapter to include more on security design and new technologies, and more coverage of technology design material on network design including a selection of technologies and best practices for network design. · Introduction · Application Layer · Physical Layer · Data Link Layer · Network and Transport Layers · Local Area Networks · Wireless Local Area Networks · Backbone Networks · Metropolitan and Wide Area Networks · The Internet · Network Management · Network Security · Network Design

Data Communications and Networks uses a top-down, Internet-focussed approach to tackle the problem of communication system design. An integrated approach is taken to networks and data communications, with an emphasis that starts from the top level requirements and works downwards, describing how

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such requirements are fulfilled by lower layers of the transmission chain. While the book contains sufficient detail to provide an excellent foundation, clarity is paramount and care is taken not to swamp the reader with information to the point where the underlying concepts are obscured. The Internet is used as the principle example of a communication system, allowing the reader to follow the system from the application layers, with source coding and security, through the network, with naming and routing algorithms, down to transport and physical aspects of a communication system. Modern techniques such as mobile radio, Voice over IP, and ASDL, are covered, while more traditional aspects such as circuit switching, which still form a significant part of current systems, are not overlooked. By providing a technical introduction and including application examples, this text will have significant appeal to final year students, postgraduates and professionals with a science or engineering background wishing to gain a basic understanding of the key concepts behind data communications engineering.

Modern organizations are critically dependent on data communications and network systems utilized in managing information and communications, vital to continuity and success of operations. ""Breakthrough Perspectives in Network and Data Communications Security, Design and Applications"" addresses key

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issues and offers expert viewpoints into the field of network and data communications, providing the academic, information technology, and managerial communities with the understanding necessary to implement robust, secure, and effective solutions. This much-needed addition to library and professional collections offers a matchless set of high quality research articles and premier technologies to address the most salient issues in network and data communications.

This book "Communications and Networking" focuses on the issues at the lowest two layers of communications and networking and provides recent research results on some of these issues. In particular, it first introduces recent research results on many important issues at the physical layer and data link layer of communications and networking and then briefly shows some results on some other important topics such as security and the application of wireless networks. In summary, this book covers a wide range of interesting topics of communications and networking. The introductions, data, and references in this book will help the readers know more about this topic and help them explore this exciting and fast-evolving field.

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

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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 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 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 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.

02. 2 Network topologies 744 02. 3 Token ring 747 02. 4 Ethernet 749 02. 5 LAN

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Over the past few years, many fundamental changes have occurred in data communications and networking that will shape the future for decades to come.

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Updated with the latest advances in the field, Jerry FitzGerald and Alan Dennis' 10th Edition of Business Data Communications and Networking continues to provide the fundamental concepts and cutting-edge coverage applications that students need to succeed in this fast-moving field. Authors FitzGerald and Dennis have developed a foundation and balanced presentation from which new technologies and applications can be easily understood, evaluated, and compared.

Thoroughly updated for currency, this book offers a clear presentation of data communications and network 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.

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

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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.

This book is designed and developed assuming little or no technical background on part

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of the reader. The book therefore first introduces the philosophy of data communications covering signal propagation and information encoding. It then proceeds to cover various technologies, OSI model, protocols, network architectures, internetworking concepts and TCP/IP. All this makes the book ideally suited for the first course on Data Communications and Networks.

Data Communications and Networking, 3/e provides a comprehensive and current introduction to networking technologies. The book is accessible to students from all backgrounds and uses hundreds of figures to visually represent concepts. The new edition has been completely updated to reflect the constantly changing world of network technologies. Enhanced coverage of bluetooth, wireless, satellites, as well as four new chapters on security have been added. The third edition has transitioned from using the 7-layer OSI model to the 5-layer Internet Model. More time is spent on TCP/IP in the new organization. Forouzan's book continues to be supported by an On-line Learning Center (OLC) that contains many extra resources for students and instructors. Some of the features include PowerPoints, solutions, self-quizzing, and Flash animations that illustrate concepts.

"This book presents quality articles focused on key issues concerning the planning, design, maintenance, and management of telecommunications and networking technologies"--Provided by publisher.

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

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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 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.

Data Communication and Networking, International Edition provides a solid, thorough overview of data communications and networking for Engineering Technology programs. This text covers information for one or more courses spanning digital communication systems, computer communication and networks, and data communications. It is specifically written and designed for engineering and engineering technology learners by using a systematic and visual approach with abundant tables, illustrations, and practical examples making it easy for students to comprehend concepts. Content begins with data communication, signal conversion and issues in

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data transmission. Each chapter includes an introduction, summary of key information, as well as practice questions and problems with answers. The text also includes coverage of network and network standards, Ethernet, network components and Transmission Control and Internets Protocols (TCP/IP). The integration of applications and laboratory experiments are found throughout the text, making Data Communication and Networking, First Edition a one-of-a-kind and practical text.

Data Communications 2 Network Mechanisms. 3 Interfaces, Transmission Media, Multiplexing & Error Detection 4 Local Area Networks (Lan) Architectures 5 Networking And Internetworking Devices 6 Tcp/Ip Architecture 7 Metropolitan Area Networks & Wide Area Networks 8 The Physical And Datalink Layers 9 Ethernet 10 Token Ring 11 Token Bus 12 Fiber Distributed Data Interface (Fddi) 13 Integrated Services Digital Network 14 Broadband—Isdn 15 X.25, Frame Relay And Sonet 16 Asynchronous Transfer Mode (Atm) 17 Network Layer 18 Transport Layer 19 Application Layer Services 20 Upper Osi Layers 21 Local Area Network Management 22 Internet Protocol Version 6: Ipv6 23 Ipv6 Essential Functions And Services 24 Network Security Appendix A Quick Reference (Important Points To Be Remember) Appendix B Practice Set (Multiple Choice Questions) Appendix C Acronyms Appendix D Glossary Appendix E References

For an accessible and comprehensive survey of telecommunications and data communications technologies and services, consult the Telecommunications and Data

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Communications Handbook, which includes information on origins, evolution and meaningful contemporary applications. Find discussions of technologies set in context, with details on fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet. Explore topics like Voice over Internet Protocol (VoIP); 802.16 & WiMAX; Passive Optical Network (PON); 802.11g & Multiple Input Multiple Output (MIMO) in this easily accessible guide without the burden of technical jargon.

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 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

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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, design issues, interfacing, and protocols. 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 and Computer Communications, 10e, is a 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 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 networking, and protocol design.

What every electrical engineering student and technical professional needs to know

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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

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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.

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

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version.

Data Communication and Networking, First Edition provides a solid, thorough overview of data communications and networking for Engineering Technology programs. This text covers information for one or more courses spanning digital communication systems, computer communication and networks, and data communications. It is specifically written and designed for engineering and engineering technology learners by using a systematic and visual approach with abundant tables, illustrations, and practical examples making it easy for students to comprehend concepts. Content begins with data communication, signal conversion and issues in data transmission. Each chapter includes an introduction, summary of key information, as well as practice questions and problems with answers. The text also includes coverage of network and network standards, Ethernet, network components and Transmission Control and Internets Protocols (TCP/IP). The integration of applications and laboratory experiments are found throughout the text, making Data Communication and Networking, First Edition a one-of-a-kind and practical text. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

"This book highlights comprehensive research that will enable readers to understand, manage, use, and maintain business data communication networks more effectively"--Provided by publisher.

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Business Data Communications, 6/e, is ideal for use in Business Data Communications, Data Communications, and introductory Networking for Business courses. Business Data Communications, 6/e, covers the fundamentals of data communications, networking, distributed applications, and network management and security. Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff, structuring his text around requirements, ingredients, and applications. While making liberal use of real-world case studies and charts and graphs to provide a business perspective, the book also provides the student with a solid grasp of the technical foundation of business data communications.

Throughout the text, references to the interactive, online animations supply a powerful tool in understanding complex protocol mechanisms. The Sixth Edition maintains Stallings' superlative support for either a research projects or modeling projects component in the course. The diverse set of projects and student exercises enables the instructor to use the book as a component in a rich and varied learning experience and to tailor a course plan to meet the specific needs of the instructor and students.

This is a thorough introduction to the concepts underlying networking technology, from physical carrier media to protocol suites (for example, TCP/IP). The author

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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).

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 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 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

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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.

This text provides a comprehensive coverage of data communications fundamentals, telephone system operation, local area networks, internetworking, and Internet communications. Each chapter contains numerous examples emphasizing the most important concepts presented. Questions and problems are included at the end of each chapter, and answers to selected problems are provided at the end of the book. Significant material is provided on the following:

- Analog and digital electronic communications systems
- Metallic and optical fiber cable systems
- Digital transmission and multiplexing
- Wireless communications systems, including free-space electromagnetic wave preparation
- Wireline, cellular, and PCS telephone theory
- Codes, data formats, error detection and correction, modems, UARTs and USARTs, and serial interfaces
- Data-link protocols, including XMODEM, YMODEM, KERMIT, SDLC, and HDLC
- Transmission formats, LAN topologies, and basic internetworking devices
- IEEE 802 Project including access methodologies, and MAC and LLC sublayers
- IEEE 802.3 Ethernet and DIX Ethernet II IP addressing, subnets, supernetworks, and IP classless and classful addressing hierarchies
- Layer 3 networking protocols,

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such as ARP, IPv4, and ICMP; and Layer 4 transport protocols, such as UDP and TCP Internet Protocol version 6 (IPv6) and Internal Control Management Protocol version 6 (ICMPv6) Configuration and domain name protocols, including DHCP and DNS Application layer protocols, including Telnet, FTP TFTP, SMTP, POP, and HTTP Integrated Services Digital Network and Digital Subscriber Loop Broadband WAN access technologies such as X.25, Frame Relay, and ATM 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 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.

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"Data Communications and Networking, 3/e" provides a comprehensive and current introduction to networking technologies. The book is accessible to students from all backgrounds and uses hundreds of figures to visually represent concepts. The new edition has been completely updated to reflect the constantly changing world of network technologies. Enhanced coverage of bluetooth, wireless, satellites, as well as four new chapters on security have been added. The third edition has transitioned from using the 7-layer OSI model to the 5-layer Internet Model. More time is spent on TCP/IP in the new organization. Forouzan's book continues to be supported by an On-line Learning Center (OLC) that contains many extra resources for students and instructors. Some of the features include PowerPoints, solutions, self-quizzing, and Flash animations that illustrate concepts.

Written for students and managers who do not have a technical background, Data Communications and Network Security comprehensively introduces students to the technology and management of data communications. This includes both wired and wireless technology as well as comprehensive coverage of network security, helping both the organization and the individual create and maintain a data-safe environment. The book's unique organization allows the material to be presented in a variety of ways, making the book a strong match to any teaching approach.

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This expanded and completely updated edition, of the popular text reflects the major changes to communications technology since 1990. New coverage includes discussions of ATM and Frame Relay, Ethernet and Token-Ring Networks, and expanded treatment of satellite communications. There is also new material on the ATM LAN versus WAN evolution as well as new sections on LAN networking and Internetworking. Emphasis is given throughout to reflect the emergence of the Internet with timely information on TCP/IP, NetWare, and LAN applications.

Data Communications and Networking, 5th edition, teaches the principles of networking using TCP/IP protocol suite. It employs a bottom-up approach where each layer in the TCP/IP protocol suite is built on the services provided by the layer below. This edition has undergone a major restructuring to reduce the number of chapters and focus on the organization of TCP/IP protocol suite. It concludes with three chapters that explore multimedia, network management, and cryptography/network security. Technologies related to data communications and networking are among the fastest growing in our culture today, and there is no better guide to this rapidly expanding field than Data Communications and Networking.

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

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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 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 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.

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

Data communications and networks are two of the fastest growing technological areas. This is because there is an almost unlimited demand for information transfer. Increased transfer rates give the opportunity for better applications and improved opportunities. These improvements lead to an increased demand for communications, and so on. Most people in business would now agree that networks and data communications makes their work easier and increases their productivity. Communication systems now

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cover many important areas of modern life. Without them, there would be no ATM bank services, no Internet, no video conferencing and no electronic mail. Ask most organizations about what their most important resources were and many would say that their communications infrastructure was the most important. Without it, they could not effectively communicate, and business needs good and reliable communications. Within a few years, the most important component in a computer system will not be the processor or the amount of memory it has, it will be its link to the network. Computers systems will become just another part of a local and a global communications network. It must also be said that communications is making the world a smaller place. It is reducing the influence that governments and organizations have on our life and makes it much easier for us search and retrieve information.

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