

—THE—  
**HAND  
BOOK**

—OF—

**DATA**  
**COMMUNICATION**

—AND—

**COMPUTER  
NETWORKS**

DIMITRIS N. CHORAFAS

# The Handbook Of Data Communications And Computer Networks

**Padhraic Smyth**



## **The Handbook Of Data Communications And Computer Networks:**

**Handbook of Data Communications and Computer Networks** Dimitris N. Chorafas, 1990-12-01     *The Handbook of Data Communications and Computer Networks* Dimitris N. Chorafas, 1985     Handbook of Data Communications and Networks William. Buchanan, 2013-11-11 The object of this book is to cover most of the currently relevant areas of data communications and networks These include Communications protocols especially TCP IP Networking especially in Ethernet Fast Ethernet FDDI and ATM Networking operating systems especially in Windows NT Novell NetWare and UNIX Communications programs especially in serial communications parallel communications and TCP IP Computer hardware especially in PC hardware serial communications and parallel communication The book thus splits into 15 different areas these are General data compression Chapters 2 and 3 Video images and sound Chapters 4 11 Error coding and encryption Chapters 12 17 TCP IP WWW Internets and Intranets Chapters 18 20 and 23 Electronic Mail Chapter 21 HTML Chapters 25 and 26 Java Chapters 27 29 Communication Programs Chapters 20 29 and 49 Network Operating Systems Chapters 31 34 LANs WANs Chapters 35 38 46 Serial Communications Chapters 47 and 48 Parallel Communications Chapters 50 52 Local Communications Chapters 53 57 Routing and Protocols Chapters 36 and 37 Cables and connectors Chapters 58 60 Many handbooks and reference guides on the market contain endless tables and mathematics or are dry to read and contain very little insight in their subject area I have tried to make this book readable but also contain key information which can be used by professionals     **DATA COMMUNICATIONS AND COMPUTER NETWORKS** BRIJENDRA SINGH, 2014-02-11 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 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     **The Handbook of Data Communications and Networks** William Buchanan, 2004 02 2 Network topologies 744 02 3 Token ring 747 02 4 Ethernet 749 02 5 LAN components 752 02 6 Cabling standards 762 02 7 Important networking definitions 769 03 Ethernet 771 03 1 Introduction 771 03 2 IEEE standards 772 03 3 Ethernet media access control MAC layer 773 03 4 IEEE 802 2 and Ethernet SNAP 775 03

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**Data Communications and Computer Networks** Curt M. White, 2002 This complete introduction to data communications is written to bring a fresh readable business oriented perspective to the technology that lies at the heart of the booming telecommunications revolution Providing a solid background of fundamentals to tomorrow s information systems professionals this survey of data communications keeps a balance between the super technical and the watered down providing a solid understanding not only of how things work but how they can be applied to create business solutions An accompanying interactive CD ROM integrates tightly with the book and provides 11 modules that make concepts come to life and allow hands on practice of skills This new updated second edition features even more remediation at the end of each chapter and coverage of cutting edge technologies such as Bluetooth highly elliptical orbiting satellites V 92 code division multiplexing and wireless technologies

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**DATA COMMUNICATIONS AND COMPUTER NETWORKS** PRAKASH C. GUPTA, 2006-01-01 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 Ethernet 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

Handbook of Data Communications and Computer Networks Dimitris N. Chorafas, 1991 The Handbook of Computer Networks, Key Concepts, Data Transmission, and Digital and Optical Networks Hossein Bidgoli, 2008 A complete and in depth introduction to computer networks and networking In this first volume of The Handbook of Computer Networks readers will get a complete overview of the key concepts of computers networks data transmission and digital and optical networks Providing a comprehensive examination of computer networks the book is designed for both undergraduate students and professionals working in a variety of computer network dependent industries With input from over 270 experts in the field the text offers an easy to follow progression through each topic and focuses on fields and

technologies that have widespread application in the real world

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William. Buchanan, 2013-08-28 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 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

Voice & Data

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Curt White, 2012-01-21 Data communications and computer networks are vital in today's business world DATABASE COMMUNICATIONS AND COMPUTER NETWORKS 7th Edition balances technical and practical everyday aspects of data communications for future business managers computer programmers and system designers needing a thorough understanding of basic features operations and limitations of different types of computer networks The Seventh Edition retains many of the elements that made past editions so popular

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Buchanan, 2013-12-04 02 2 Network topologies 744 02 3 Token ring 747 02 4 Ethernet 749 02 5 LAN components 752 02 6 Cabling standards 762 02 7 Important networking definitions 769 03 Ethernet 771 03 1 Introduction 771 03 2 IEEE standards 772 03 3 Ethernet media access control MAC layer 773 03 4 IEEE 802 2 and Ethernet SNAP 775 03 5 OSI and the IEEE 802 3 standard 777 03 6 Ethernet types 780 03 7 Twisted pair hubs 781 03 8 100 Mbps Ethernet 782 03 9 Gigabit Ethernet 787 03 10 Bridges 792 03 11 ARP 793 03 12 RARP 797 03 13 Spanning Tree Protocol 798 03 14 Additional 799 03 15 Network interface card design 800 03 16 82559 based Ethernet 804 03 17 Comparison of fast Ethernet with other technologies 806 04 Network Design Switches and VLANs 807 04 1 Introduction 807 04 2 Network design 807 04 3 Hierarchical network design 809 04 4 Switches and switching hubs 814 04 5 VLANs 818 05 Token Ring 825 05 1 Introduction 825 05 2 Operation 825 05 3 Token Ring media access control MAC 826 05 4 Token Ring maintenance 828 05 5 Token Ring multistation access units MAUs 829 05 6 Cabling and connectors 830 05 7 Repeaters 830 05 8 Jitter suppression 831 06 FDDI 833 06 1 Introduction 833 06 2 Operation 834 06 3 FDDI layers 834 06 4 SMT protocol 836 06 5 Physical connection management 836 06 **Business Data Communications and Networking** Jerry FitzGerald, Alan Dennis, 2009-01-09 Over the past few years many fundamental changes have occurred in data communications and networking that will shape the future for decades to come 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

**Applied Data Communications and Networks** B. Buchanan, 2011-09-30 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 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 book takes a practical ap proach 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 ProtocollInternet Protocol TCPIIP 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

**Fundamentals of Data Communication Networks** Oliver C. Ibe, 2017-11-29 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



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