

—THE—  
**HAND  
BOOK**  
—OF—  
**DATA**  
**COMMUNICATION**  
—AND—  
**COMPUTER  
NETWORKS**

DIMITRIS N. CHORAFAS

# The Handbook Of Data Communications And Computer Networks

**William. Buchanan**



## **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

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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

*The Handbook of Data Communications and Networks* B. Buchanan, 2010-02-23

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Handbook of Business Data Communications Hossein Bidgoli, 2000-08-08 Do you need a one volume lesson about business applications of the Internet and other computer based hardware and software This book provides comprehensive coverage of four major

areas The Internet and Data Communications Basics Popular Types of Networks Design Implementation and Management Issues in a Network Environment and Data Communication and Internet Applications The Handbook of Business Data Communications looks briefly at the major corporations working in each category In addition to practical examples short case studies and summaries of emerging issues in data communications Professor Bidgoli discusses personal social organizational and legal issues surrounding the use of networks and business software Easy to use balanced and up to date the Handbook has both answers and insights into future trends in business data communications Key Features An industry profile begins each chapter providing readers with ways to learn more about the products they use Numerous case studies of businesses throughout the book highlight applications topics Includes balanced presentations of current and emerging technologies as well as useful discussions of security issues and measures Presents thorough examinations of the Internet and intranets extranets Social organizational and legal materials provide context for data communications information Summaries and review questions reinforce the aims of each chapter

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 **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

Handbook of Data Communications and Networks 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

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

Voice & Data Communications Handbook, Fifth Edition Regis J. Bates,Donald W. Gregory,2007-01-03 The Definitive Telecommunications Reference Fully Updated Understand cutting edge telecommunication and networking technologies using this straightforward real world implementation guide Fully revised to cover all of the latest transmission protocols Voice Data Communications Handbook Fifth Edition covers all the bases from analog transmission VPNs and LANs to DSL CATV WiFi VoIP and GSM This authoritative volume covers the ins and outs of each vital topic supplies practical examples and solutions and provides helpful self tests You ll also find up to date information on regulatory standards switches routers frame relay and security procedures Use new wireless technologies Understand the building blocks of analog transmission bandwidth amplitude and frequency Provide transparent communications using the OSI model and seven layer architecture Comply with local and federal regulations and RBOCs Transmit information using routers SS7 PBX and KTS switches Send and receive data across TCP IP wireless cellular and optical systems Create a connection using a modem Connect to multiple VPNs and LANs using frame relay ATM and MPLS Deploy high speed broadband access with cable modems xDSL and CATV Get details on VoIP SIP and voice over data

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**Handbook of Data Communications and Networks** William. Buchanan,1999-08-18 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

*The Handbook of Data Communications and Networks* B. Buchanan,2013-12-04

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**Applied Data Communications and Networks** B. Buchanan,2011-09-30 The usage of data communications and computer networks are ever increasing 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 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

**Data Communications and Computer Networks: A Business User's Approach** Curt White, 2010-03-09 Data communications and computer networks are becoming increasingly more important today's business world could not function without either DATABASE COMMUNICATIONS AND COMPUTER NETWORKS offers a balance between technical and practical aspects of data communication Business managers computer programmers system designers and home computer users alike need a thorough understanding of the basic features operations and limitations of different types of computer networks DATA COMMUNICATIONS AND COMPUTER NETWORKS introduces concepts that help the reader achieve an in depth understanding of the often complex topic of data communications and computer networks by balancing the more technical aspects and the everyday practical aspects The sixth edition retains many of the elements that made the fifth edition so popular including readability and coverage of the most current technologies This book offers full coverage of wireless technologies industry convergence compression techniques network security LAN technologies VoIP and expanded coverage of error detection and correction Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

*Understanding Data Communications* Gilbert Held, 2002 This is the only book of its kind to provide solid explanations behind modern data communications concepts All the concepts are modern and up to date in sync with the current and future data communication market [Data Communications, Computer Networks and Open Systems](#) Fred Halsall, 1996 Fully revised and updated the fourth edition includes new chapters on broadband multi service networks a revamped chapter with extended and updated coverage of FDDI and a new section on Fast Ethernet covering 100BaseT 100Base X wireless LANs and several additional candidate technologies



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