

# THE HANDBOOK OF DATA COMMUNICATIONS AND NETWORKS

2ND EDITION

W.J. BUCHANAN



SPRINGER-SCIENCE+BUSINESS MEDIA, B.V.

# Handbook Of Data Communications 2nd Edition

**John D. Lenk**



## **Handbook Of Data Communications 2nd Edition:**

**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

*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 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 BOO 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 FOOL layers 834 06 4 SMT protocol 836 06 5 Physical connection management 836 06

**Telecommunications and Data Communications Handbook** Ray Horak, 2007-10-16 For an accessible and comprehensive survey of telecommunications and data communications technologies and services consult the Telecommunications and Data 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 Passive

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Data Communication Principles Aftab Ahmad, 2007-05-08 Data Communication Principles for Fixed and Wireless Networks focuses on the physical and data link layers Included are examples that apply to a diversified range of higher level protocols such as TCP IP OSI and packet based wireless networks Performance modeling is introduced for beginners requiring basic mathematics Separate discussion has been included on wireless cellular networks performance and on the simulation of networks Throughout the book wireless LANs has been given the same level of treatment as fixed network protocols It is assumed that readers would be familiar with basic mathematics and have some knowledge of binary number systems Data Communication Principles for Fixed and Wireless Networks is for students at the senior undergraduate and first year graduate levels It can also be used as a reference work for professionals working in the areas of data networks computer networks and internet protocols

**A Professional's Guide to Data Communication in a TCP/IP World** E. Bryan Carne, 2004 Providing professionals with a comprehensive picture of the Internet protocol stack and the role of TCP IP in data communication this is a one stop reference for data communications Supported by more than 130 illustrations

**E-Business and Distributed Systems Handbook** Amjad Umar, 2003 This module discusses the network services and architectures in the Internet World topics include network architectures network connectivity IP based networks broadband networks wireless networks and Next Generation Internet

**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 services Increase bandwidth using IP telephony techniques and PBX equipment

*Data Communications* United States. Air Traffic Operations Service, 1989

**The Cumulative Book Index**, 1996 A world list of books in the English language

Data Communications Pocket Book Michael H. Tooley, 1992 A handbook on data communications covering local area networks LANs Ethernet the architecture of I O devices parallel and serial data conversion logic circuits fibre optic technology and more Organized for rapid reference it is aimed at readers from the sophisticated to the non technical

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*Database Hacker's Handbook Defending Database* David Litchfield Chris Anley John Heasman Bill Gri, The Electronics Handbook Jerry C. Whitaker,1996-12-23 The superb organization of The Electronics Handbook means that it is not only a comprehensive and fascinating reference but also a pleasure to use Some of these organizational features include

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Telecommunications Research Resources James K. Bracken,Christopher H. Sterling,2021-12-16 As the telecommunication and information field expands and becomes more varied so do publications about these technologies and industries This book is a first attempt to provide a general guide to that wealth of English language publications both books and periodicals on all aspects of telecommunication It is a comprehensive evaluative sourcebook for telecommunications research in the United States that brings together a topically arranged cross referenced and indexed volume in one place The information provided is only available by consulting a succession of different directories guides bibliographies yearbooks and other resources On the one hand it is a directory that describes in detail the major entities that comprise the American telecommunication research infrastructure including federal and state government offices and agencies and private public and corporate research institutions On the other hand it is a bibliography that identifies and assesses the most important and useful reference and critical resources about U S telecommunication history technology industry and economics social applications and impacts plus policy law and regulations and role in the global telecommunication marketplace No existing guide covers all of these aspects in the depth and detail of this volume *Telecommunications and Networking* Udo W. Pooch,2018-05-04 As the dividing line between traditional computing science and telecommunications quickly becomes blurred or disappears in today's rapidly changing environment there is an increasing need for computer professionals to possess knowledge of telecommunications principles Telecommunications and Networking presents a comprehensive overview of the interaction and relationship between telecommunications and data processing The book's early chapters cover basic telecommunications vocabulary common nomenclature telecommunications fundamentals as well as the important relationships among coding error detection and correction and noise Later chapters discuss such topics as switching timing topological structures routing algorithms and teleprocessing Other topics covered in detail include specific concerns inherent to computer communications such as protocols error detection and correction network monitoring and security and system validation System designers and programmers can no longer be effective simply by understanding the

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