



Telecommunications and Data Communications Handbook

Ray Horak

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If you really need to understand telecommunications, you must own a copy of "Telecommunications and Data Communications Handbook" by Ray Horak. A well-researched and comprehensive survey of telecom and datacom technologies and services, from the most basic to the most complex, the book begins with basic concepts and definitions and marches through the full ranges of transmission media and voice, data, and video systems, networks, standards and protocols. The author sets the technologies in context, providing a good level of detail on the origin and evolution of fiber optics, cellular radio, digital carrier systems, TCP/IP, and the Internet, as examples. The emphasis is just right, with plenty of ink devoted to broadband LAN, MAN, and WAN technologies such as 3G, 802.11g/n, ADSL, BPL, CWDM and DWDM, PON, and WiMAX. The author devotes the final chapter to tracking the origins, evolution, and current status of U.S. telecom regulation through key legislative, judicial and agency events. Back matter includes a helpful list of more than 1,000 industry acronyms and initialisms and an excellent and thoroughly complete index, which is the mark of an author with an appreciation for the reader. Ray Horak writes in a unique plain-English, commonsense style that makes the book an easy read for a technology book. Also, he liberally sprinkles his trademarked (or, more correctly, copyrighted) wry sense of humor throughout, so you will find yourself smiling and chuckling from time to time. While "Telecommunications and Data Communications Handbook" is written for a reasonably astute academic and professional readership of engineers, analysts, regulators, attorneys, and other telecom professionals, Horak develops each topic in plain English and in such a commonsense and patient manner that the book is equally informative and useful to a student or relative newcomer to telecommunications. Among the many of specific technology topics are included the following: 'T/E/J-Carrier Systems' Fiber Optics; MMF and SMF; CWDM and DWDM; EDFAs and Raman Amplification; Passive Optical Network (PON); SONET/SDH Wireless; 802.11a/b/g/n Multiple Input Multiple Output (MIMO); 802.11n and WiMAX; Bluetooth; ZigBee; Cellular, including 2.5G and 3G; Broadband over Power Line (BPL); E-mail and Instant Messaging (IM); Storage Area Networks (SANs); Digital Subscriber Line (DSL): ADSL, HDSL, SHDSL, SDSL, and VDSL; CATV Networks and Modems; Voice over Internet Protocol (VoIP), including IP PBX and IP Centrex; and, Session Initiation Protocol (SIP) vs. H.323. Published by Wiley-Inter science (September 2007) 791 pages, \$99.95 ISBN-10: 0470041412 ISBN-13: 978-0470041413 The perfect companion to this book is "Webster's New World Telecom Dictionary", also written by Ray Horak in 2007. It is a comprehensive telecommunications dictionary of more than 4,600 terms critical to understanding voice, data, video, and multimedia communications system and network technologies, applications, and regulation. An instant classic that contains none of the fluff found in competing works, "Webster's New World Telecom Dictionary" is a carefully researched and absolutely reliable source. As such, it is the one and only telecom dictionary you will need.



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