



# Introduction to Cable Television (CATV) 2nd Edition: Analog and Digital Television and Modems

*By Mr. Lawrence Harte*

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## Introduction to Cable Television (CATV) 2nd Edition: Analog and Digital Television and Modems By Mr. Lawrence Harte

This book explains the fundamentals of cable television systems, the equipment they use, what services they can offer, and how cable television fits and compares with other broadcast technologies. Cable television (CATV) is a television distribution system that uses a network of cables to deliver multiple video, data, and audio channels. This book provides an overview of cable television system technology including cable modems, digital television, high definition television (HDTV), along with how cable systems are evolving to offer advanced services such as ultra broadband and video on demand (VOD).

Described are the basic parts of cable television systems including set top boxes, cable modems, distribution systems, and head end equipment. Analog and digital video technology fundamentals are provided including the different types of analog video (NTSC, PAL, and SECAM) and the key types of digital video compression (MPEG-2, MPEG-4 and VC-1). You will discover why and how cable system operators are converting some of their networks from analog to digital to give more channel capacity and to provide for broadband Internet (cable modem) services. Described are the fundamentals of the data over cable service interface specifications (DOCSIS) and what each revision of DOCSIS provides to cable system operators. Explained are the different types of subscription services and value added pay per view (PPV) services including near video on demand (NVOD), video on demand (VOD), and personal video recorders (PVRs). You will learn how cable systems can be upgraded to offer telephone services and why cable operators are transitioning from proprietary telephone systems to industry standard voice over Internet protocol (VOIP) systems. MMDS and LMDS wireless cable technology is described along with how cable operators can efficiently use these wireless systems to extend the range of their cable systems. The future of cable television is discussed including advances in interactive television and addressable advertising. Some of the most important topics featured in this book are:

- Components and operation of CATV systems
- Differences between analog and digital CATV systems
- NTSC, PAL, and HDTV television signals
- Video and audio compression
- Cable modems using DOCSIS
- MPEG digital formats
- Video on demand (VOD)
- Cable telephony
- MMDS and LMDS wireless cable
- How CATV is evolving into

IPTV

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- Sales Rank: #1771581 in Books
- Published on: 2007-04-16
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .24" w x 7.50" l, .58 pounds
- Binding: Paperback
- 104 pages

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### **Editorial Review**

#### About the Author

LAWRENCE HARTE is the president of APDG, a provider of expert information to the telecommunications market.

Mr. Harte has over 23 years of experience in the electronics industry, including company leadership, product management, development, marketing, design, and testing of telecommunications (cellular), radar, and microwave systems. He has been issued patents relating to cellular technology. He has authored over 75 articles on related subjects and has been a speaker and panel moderator at industry trade events.

Mr. Harte earned an executive MBA at Wake Forest University and received his B.A. from the University of the State of New York. During the TDMA digital cellular standard development process, Mr. Harte served as an editor and voting company representative for the Telecommunications Industries Association (TIA) TR45.3., digital cellular standards committee.

As of 2001, Mr. Harte has authored and co-authored over 20 books relating to telecommunications technology. He has served as a consultant and expert witness for leading companies including Ericsson, Siemens, VLSI, AMD, Casio, Samsung, Sony, ATT, Nokia, Hughes, and many others.

RICHARD LEVINE is the founder and principal engineer of Beta Scientific Laboratory and is also Adjunct Professor of Electrical Engineering at Southern Methodist University. He is active as a technology consultant to many firms developing new cellular and PCS systems and products used in Brazil, Canada, England, France, Germany, Israel, Korea, Mexico, and the United States.

Mr. Levine is a well-known teacher of cellular and PCS technology to people in the industry. He was formerly the chairman of several working groups in the North American digital cellular standards development.

Mr. Levine earned the Bachelor, Master, and Doctor of Science degrees from M.I.T., is licensed as a Professional Engineer, and has earned both amateur and professional radio operator licenses. He has been issued several patents on telecommunications, computer systems, and related technologies.

ROMAN KITKA is the Director, Strategy and Business Crteation, Nokia Ventures Organization. He is a seasoned wireless communications industry veteran, innovator, and visionary.

During his 17 + years in wireless communications, he has held product planning and development, marketing, and market/business development positions with leading wireless manufacturers including Nokia Mobile Phones, Panasonic, GoldStar, and OKI Telecom. Mr. Kitka has influenced several cellular mobile, transportable, and portable phone model designs, features, and functionality. His efforts have resulted in the first cellular payphone, first cellular PBX adjunct "Business Link," voice recognition dialers, as well as the first PCS product launch in the U.S.

Mr. Kitka possess exceptional foresight and understanding of global market needs, both from

anthropological and psychological aspects, as well as the opportunities provided by existing and future wireless communications, Internet and related technologies, and business.

Mr. Kitka, a graduate of Rutgers University in New Jersey, is a co-author of the books CDMA IS-95 FOR CELLULAR AND PCS: Technology, Economics & Services; DELIVERING xDSL; 3G CELLULAR AND PCS DEMYSTIFIED; and WAP DEMYSTIFIED. Mr. Kitka has been a speaker at several wireless communications and Internet conferences and events, both in the U.S. and internationally.

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**Lucille Yang:**

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