

CHAPTER 2

PULSE CODE MODULATION

- Pulse Code Modulation
- Analogue to Digital Conversion
- Quantizing
- Encoding

PULSE CODE MODULATION

➤ **DEFINITION:** Pulse code modulation (PCM) is essentially analog-to-digital conversion of a special type where the information contained in the instantaneous samples of an analog signal is represented by digital words in a *serial bit stream*.

➤ **The advantages of PCM are:**

- ❑ Relatively inexpensive digital circuitry may be used extensively.
- ❑ PCM signals derived from all types of analog sources may be merged with data signals and transmitted over a common high-speed digital communication system.
- ❑ In long-distance digital telephone systems requiring repeaters, a clean PCM waveform can be regenerated at the output of each repeater, whereas the input consists of a noisy PCM waveform.

Chapter 4 Pulse Code Modulation

William N. Waggener



Chapter 4 Pulse Code Modulation:

Pulse Code Modulation Techniques Bill Waggener, William N. Waggener, 1995 *Pulse Code Modulation Techniques* brings together the theory and practice of PCM at the physical layer where the bits meet the silicon so to speak The key topics of symbol encoding detection and synchronization are discussed in detail both from a theoretical and a practical standpoint Topics which have been largely absent in text books such as multiplexing formatting and format synchronization are also considered Although PCM evolved as a communication technology it has become an important technology in data recording In a sense magnetic or optical media are just specialized communication media and the key technologies discussed in this book are just as important to recording applications as to communications PCM codes used for magnetic recording applications are discussed along with traditional communication codes The design analysis and implementation of a PCM system requires knowledge of very specific techniques associated with detection synchronization and coding The techniques have evolved from both ad hoc methods and complex theory One of the goals of this book is to bridge the gap between theory and practice in the key techniques Matched filters are not only discussed theoretically but means for implementing them are also considered The same is true with symbol synchronization

Essentials of Modern Communications Djafar K. Mynbaev, Lowell L. Scheiner, 2020-07-09 *Explore Modern Communications and Understand Principles of Operations* Appropriate Technologies and Elements of Design of Communication Systems Modern society requires a different set of communication systems than has any previous generation To maintain and improve the contemporary communication systems that meet ever changing requirements engineers need to know how to recognize and solve cardinal problems In *Essentials of Modern Communications* readers will learn how modern communication has expanded and will discover where it is likely to go in the future By discussing the fundamental principles methods and techniques used in various communication systems this book helps engineers assess troubleshoot and fix problems that are likely to occur In this reference readers will learn about topics like How communication systems respond in time and frequency domains Principles of analog and digital modulations Application of spectral analysis to modern communication systems based on the Fourier series and Fourier transform Specific examples and problems with discussions around their optimal solutions limitations and applications Approaches to solving the concrete engineering problems of modern communications based on critical logical creative and out of box thinking For readers looking for a resource on the fundamentals of modern communications and the possible issues they face *Essentials of Modern Communications* is instrumental in educating on real life problems that engineering students and professionals are likely to encounter

Radio Frequency Source Coding Made Easy Saleh Faruque, 2015-07-02 This book introduces Radio Frequency Source Coding to a broad audience The author blends theory and practice to bring readers up to date in key concepts underlying principles and practical applications of wireless communications The presentation is designed to be easily accessible minimizing mathematics and maximizing visuals

Digital Communications with Emphasis on Data Modems Richard W. Middlestead, 2017-03-07 This book uses a practical approach in the application of theoretical concepts to digital communications in the design of software defined radio modems This book discusses the design implementation and performance verification of waveforms and algorithms appropriate for digital data modulation and demodulation in modern communication systems Using a building block approach the author provides an introductory to the advanced understanding of acquisition and data detection using source and executable simulation code to validate the communication system performance with respect to theory and design specifications The author focuses on theoretical analysis algorithm design firmware and software designs and subsystem and system testing This book treats system designs with a variety of channel characteristics from very low to optical frequencies This book offers system analysis and subsystem implementation options for acquisition and data detection appropriate to the channel conditions and system specifications and provides test methods for demonstrating system performance This book also Outlines fundamental system requirements and related analysis that must be established prior to a detailed subsystem design Includes many examples that highlight various analytical solutions and case studies that characterize various system performance measures Discusses various aspects of atmospheric propagation using the spherical 4/3 effective earth radius model Examines Ionospheric propagation and uses the Rayleigh fading channel to evaluate link performance using several robust waveform modulations Contains end of chapter problems allowing the reader to further engage with the text Digital Communications with Emphasis on Data Modems is a great resource for communication system and digital signal processing engineers and students looking for in depth theory as well as practical implementations

Pulse Code Modulation Systems Design William N. Waggener, 1999 Read this book cover to cover to strengthen your overall knowledge of Pulse Code Modulation PCM systems design or use it as a time saving desktop reference to answer specific design questions Authored by a well known expert in the field this book identifies and describes the various types of PCM systems in use today shows you how PCM is utilized in a wide variety of applications and provides you with the technical knowledge you need to engineer design and analyze a PCM system

Introduction to Communication Command and Control Systems David Joseph Morris, 1977 Data Conversion Handbook Walt Kester, Analog Devices, inc, 2005 This comprehensive new handbook is a one stop engineering reference covering data converter fundamentals techniques and applications Beginning with the basic theoretical elements necessary for a complete understanding of data converters the book covers all the latest advances made in this changing field Details are provided on the design of high speed ADCs high accuracy DACs and ADCs sample and hold amplifiers voltage sources and current reference noise shaping coding sigma delta converters and much more

Digital Coding of Waveforms Nuggehalli S. Jayant, Peter Noll, 1984 **NASA SP.**, 1976 **The ARRL Handbook for Radio Amateurs, 2001** American Radio Relay League, Chuck Hutchinson, 2000 Includes a searchable index of QST product reviews a database on over 1000 equipment and parts suppliers and several other programs **The ARRL**

Handbook for the Radio Amateur ,2001 **Modern Communication Systems** Leon W. Couch,1995 This treatment of modern communication systems presents practical design applications as developed from basic principles After covering the basic principles of digital and analogy baseband and bandpass signals the text includes practical design examples that illustrate transmitter and receiver blocks effects of nonlinearities spectral characteristics and noise performance It is designed for students studying courses in communication systems digital and computer communications or telecommunication systems and standards *Principles of Pulse Code Modulation* Kenneth William Cattermole,1969

Audio Signal Processing and Coding Andreas Spanias,Ted Painter,Venkatraman Atti,2007-02-09 Audio Signal Processing and Coding provides a thorough treatment of algorithms standards for perceptual coding of high fidelity audio overage includes relevant research signal models details on standardisation applications details on performance measures perceptual measurement systems IEE Telecommunications Series Institution of Electrical Engineers,1994 **SPC Digital Telephone Exchanges** Felix Redmill,A. R. Valdar,Institution of Electrical Engineers,1994 This detailed reference work provides an introduction to modern telephone electronic exchanges and network technology It has been revised and updated to include a new chapter on intelligent networks Developer's Guide to Multiplayer Games Andrew Mulholland,Teijo Hakala,2001-08 This is one of the few books on the market that provides the programmer and developer with the details of creating computer games on the Internet with special focus on MYSQL and Perl **Proceedings of the International Instrumentation Symposium** ,1990 *Advanced Electronic Communications Systems* Wayne Tomasi,1998

Comprehensive in scope and contemporary in coverage this text explores modern digital and data communications systems microwave radio communications systems satellite communications systems and optical fiber communications systems

Modern Electrical Communications Henry Stark,Franz B. Tuteur,John B. Anderson,1988 New edition of a textbook at senior graduate level

Whispering the Strategies of Language: An Mental Journey through **Chapter 4 Pulse Code Modulation**

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