

## Chapter 6

# Channels, modulation, and demodulation

### 6.1 Introduction

Digital modulation (or channel encoding) is the process of converting an input sequence of bits into a waveform suitable for transmission over a communication channel. Demodulation (channel decoding) is the corresponding process at the receiver of converting the received waveform into a (perhaps noisy) replica of the input bit sequence. Chapter 1 discussed the reasons for using a bit sequence as the interface between an arbitrary source and an arbitrary channel, and Chapters 2 and 3 discussed how to encode the source output into a bit sequence.

Chapters 4 and 5 developed the signal-space view of waveforms. As explained there, the source and channel waveforms of interest can be represented as real or complex<sup>1</sup>  $\mathcal{L}_2$  vectors. Any such vector can be viewed as a conventional function of time,  $x(t)$ . Given an orthonormal basis  $\{\phi_1(t), \phi_2(t), \dots\}$  of  $\mathcal{L}_2$ , any such  $x(t)$  can be represented as

$$x(t) = \sum_j x_j \phi_j(t). \quad (6.1)$$

Each  $x_j$  in (6.1) can be uniquely calculated from  $x(t)$ , and the above series converges in  $\mathcal{L}_2$  to  $x(t)$ . Moreover, starting from any sequence satisfying  $\sum_j |x_j|^2 < \infty$  there is an  $\mathcal{L}_2$  function  $x(t)$  satisfying (6.1) with  $\mathcal{L}_2$  convergence. This provides a simple and generic way of going back and forth between functions of time and sequences of numbers. The basic parts of a modulator will then turn out to be a procedure for mapping a sequence of binary digits into a sequence of real or complex numbers, followed by the above approach for mapping a sequence of numbers into a waveform.

In most cases of modulation, the set of waveforms  $\phi_1(t), \phi_2(t), \dots$ , in (6.1) will be chosen not as a basis for  $\mathcal{L}_2$  but as a basis for some subspace<sup>2</sup> of  $\mathcal{L}_2$  such as the set of functions that are baseband limited to some frequency  $W$  or passband limited to some range of frequencies. In some cases, it will also be desirable to use a sequence of waveforms that are not orthonormal.

<sup>1</sup>As explained later, the actual transmitted waveforms are real. However, they are usually bandpass real waveforms that are conveniently represented as complex baseband waveforms.

<sup>2</sup>Equivalently,  $\phi_1(t), \phi_2(t), \dots$  can be chosen as a basis of  $\mathcal{L}_2$  but the set of indices for which  $x_j$  is allowed to be nonzero can be restricted.

# Channels Modulation And Demodulation

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## **Channels Modulation And Demodulation:**

**Wireless Communications Over Rapidly Time-Varying Channels** Franz Hlawatsch, Gerald Matz, 2011-05-04 As a result of higher frequencies and increased user mobility researchers and systems designers are shifting their focus from time invariant models to channels that vary within a block **Wireless Communications Over Rapidly Time Varying Channels** explains the latest theoretical advances and practical methods to give an understanding of rapidly time varying channels together with performance trade offs and potential performance gains providing the expertise to develop future wireless systems technology As well as an overview of the issues of developing wireless systems using time varying channels the book gives extensive coverage to methods for estimating and equalizing rapidly time varying channels including a discussion of training data optimization as well as providing models and transceiver methods for time varying ultra wideband channels An introduction to time varying channel models gives in a nutshell the important issues of developing wireless systems technology using time varying channels Extensive coverage of methods for estimating and equalizing rapidly time varying channels including a discussion of training data optimization enables development of high performance wireless systems Chapters on transceiver design for OFDM and receiver algorithms for MIMO communication channels over time varying channels with an emphasis on modern iterative turbo style architectures demonstrates how these important technologies can optimize future wireless systems

**Internet of Things and M2m Communications** Fabrice Theoleyr, Ai-Chun Pang, 2025-01-13 The Internet of Things is the emerging technology which interconnects smart objects using wireless communications After having been extensively studied in academic labs the Internet of Things is now widely applied in the industrial world e g domestic automation smart metering smart cities *Proceedings of the 28th Conference of Spacecraft TT&C Technology in China* Rongjun Shen, Guangliang Dong, 2017-07-25 This book collects selected papers from the 28th Conference of Spacecraft TT C Technology in China held on November 8 10 2016 The book features state of the art studies on spacecraft TT C in China with the theme of Openness Integration and Intelligent Interconnection To meet requirements of new space endeavors development of spacecraft instrumentation systems have to follow an open concept and approach in China An open spacecraft instrumentation system encompasses integrated development of different types of services integration of disciplines and specialties intelligent links and more scientific and intelligent information interface technology Researchers and engineers in the field of aerospace engineering and communication engineering can benefit from the book

**Space Communications: Modulation and channels** Louise C. Bickford, 1965 **A Forecast of Space Technology, 1980-2000** United States. National Aeronautics and Space Administration. Scientific and Technical Information Office, 1976 *A Forecast of Space Technology, 1980-2000*, 1976 **Principles of Electricity Applied to Telephone and Telegraph Work** American Telephone and Telegraph Company. Long Lines Department, 1930 *Proceedings of the American Institute of Electrical Engineers*, 1921 Vols for 1887 1946 include the preprint pages of the institute s Transactions **Journal of the**

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### **exam 1 study guide exam 1 study guide chapter 1** - Nov 05 2022

web learning outcomes i an overview of anatomy and physiology b the interrelationship between anatomy and physiology 1 give examples to show the interrelationship

### *biol 2401 anatomy physiology 1 flashcards quizlet* - Feb 08 2023

web instructor ndu dikeocha anatomy and physiology i is the first part of a two course sequence it is a study of the structure and function of the human body including cells

### **anatomy and physiology i exam i chapters 1 2 3 4 practice** - Jun 12 2023

web anatomy and physiology i exam i chapters 1 2 3 4 practice questions biol 10100 studocu exam 1 chapters 1 4 sample questions multiple choice first few are easy but

### *anatomy and physiology 1 exam 1 biol 2010 docsity* - Dec 26 2021

web articulate the anatomical and physiologic features of cells and tissues including basic genetic and inheritance concepts demonstrate knowledge of biology as it pertains to

### **department of biological sciences biosci 202 anatomy and** - Sep 22 2021

### **general information acc biology department austincc edu** - Oct 24 2021

### *bio 2401 practice quizzes and tests tcc se science* - Apr 29 2022

web the anatomy physiology i assessment measures whether you have the anatomy and chemistry background required for biol 2401 test fees the fee to take the anatomy