

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 complex¹ \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 subspace² 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.

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

²Equivalently, $\phi_1(t), \phi_2(t), \dots$ 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.

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