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1.2 Mathematical Analysis

1.2.1 Overview

QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

1.2.2 Overview



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QPSK (Quadrature Phase Shift Keying) is a type of digital modulation technique that uses four distinct phase values to represent two bits of data. It is a form of PSK (Phase Shift Keying) where the carrier wave is modulated by the data signal. The four phases are typically represented by the values 0, $\pi/2$, π , and $3\pi/2$. The modulation process involves multiplying the data signal by the carrier wave and then summing the results to produce the modulated signal. The demodulation process involves extracting the data signal from the modulated signal by dividing it by the carrier wave and then summing the results.

The following MATLAB code implements the QPSK modulation and demodulation process:

$$S_0 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } 0$$

$$S_1 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by } \pi/2$$

$$S_2 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } \pi$$

$$S_3 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by } 3\pi/2$$

where E_b is the energy per bit, f_c is the carrier frequency, and t is time. The code uses the [MATLAB](#) [function](#) [cos](#) to generate the carrier wave and the [sin](#) function to generate the modulated signal. The demodulation process is implemented using the [abs](#) function to extract the magnitude of the modulated signal and the [angle](#) function to extract the phase.

Matlab Code For Bpsk Modulation

Marco Casella



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