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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, 90, 180, and 270 degrees. The modulation process involves multiplying the data signal by a carrier wave and then adding the result to a reference signal. The demodulation process involves multiplying the received signal by a reference signal and then dividing the result by the carrier wave to extract the data signal.

The principle of QPSK is based on the following mathematical representation:

$$S_1 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by '0'}$$

$$S_2 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by '1'}$$

$$S_3 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by '2'}$$

$$S_4 = -\sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by '3'}$$

Mathematically, the signal is represented by the equation: $S(t) = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t + \theta)$, where θ is the phase shift. The demodulation process involves multiplying the received signal by a reference signal and then dividing the result by the carrier wave to extract the data signal.

Matlab Code For Bpsk Modulation

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