

1. Introduction



Fig. 1. Magnitude Spectrum

QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

By: [Adnan](#)



Fig. 2. Time Domain Waveforms

Quadrature Phase Shift Keying (QPSK) is a type of digital modulation technique that encodes data by using four different phase shifts (0°, 90°, 180°, and 270°). Each phase shift represents a unique combination of two bits (00, 01, 10, and 11). This allows for efficient transmission of data over a single channel.

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

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

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

$$S_3 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{representing '0'}$$

$$S_4 = -\sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{representing '1'}$$

Where E_b is the energy per bit, f_c is the carrier frequency, and t is time. By using [MATLAB](#), we can simulate and analyze the performance of QPSK modulation and demodulation.

Matlab Code For Bpsk Modulation

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