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2. Mathematical Analysis

2.1. QPSK Modulation

QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

2.2. QPSK Demodulation



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Quadrature Phase Shift Keying (QPSK) is a type of digital modulation technique that uses four different phase shifts to represent two bits of data. In this MATLAB code, we will implement the QPSK modulation and demodulation process. The code will take a binary input and convert it into a QPSK signal, which can then be transmitted over a channel. The demodulation process will recover the original binary data from the received QPSK signal.

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

$$S_0 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by '0'}$$

$$S_1 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by '1'}$$

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

$$S_3 = -\sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by '3'}$$

where E_b is the energy per bit, f_c is the carrier frequency, and t is the time. By using these four different phase shifts, we can represent two bits of data in a single symbol, which increases the data rate.

Matlab Code For Bpsk Modulation

F Rizvi



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