

1. Introduction



2. Mathematical Analysis

2.1. Overview

QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

2.2. Overview



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

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

$$S_1 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{representing '1'}$$

$$S_2 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \rightarrow \text{representing '0'}$$

where

$$S_3 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{representing '1'}$$

Mathematically, the signal energy E_b is the energy per bit. In this MATLAB code, we will use a carrier frequency f_c of 1 MHz. The code will also calculate the error rate of the QPSK signal. The error rate is the ratio of the number of errors to the total number of bits transmitted. The error rate can be calculated using the following formula:

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