

1. Introduction



2. Mathematical Analysis

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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 distinct phase states (0°, 90°, 180°, and 270°). Within this framework, each phase state represents a unique combination of two bits, forming a 2-bit symbol. This method is widely used in digital communication systems due to its efficiency and robustness.

This document provides a detailed overview of the mathematical principles underlying QPSK modulation and demodulation.

$$S_0 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } '1'$$

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

or

$$S_2 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } '0'$$

Mathematically, the received signal $r(t)$ is the sum of the transmitted signal $s(t)$ and the noise $n(t)$. Using [MATLAB](#), we can simulate the QPSK modulation and demodulation process.

Matlab Code For Bpsk Modulation

B. Tulasi Sowjanya



Matlab Code For Bpsk Modulation:

The Enigmatic Realm of **Matlab Code For Bpsk Modulation**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Matlab Code For Bpsk Modulation** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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