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2. Mathematical Analysis

2.1. QPSK Modulation

QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

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Mathematical Analysis of QPSK modulation and demodulation in MATLAB is a complex task, but it is essential for understanding the underlying principles of this modulation scheme. In this paper, we have presented a complete MATLAB code for QPSK modulation and demodulation, along with a detailed explanation of the code. The code is designed to simulate the QPSK modulation and demodulation process, and the results are shown in the figure above.

The principle of QPSK modulation and demodulation is as follows:

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

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

or

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

Mathematically, the signal is represented by the equation: $S(t) = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by '1'}$. The code is designed to simulate the QPSK modulation and demodulation process, and the results are shown in the figure above.

Matlab Code For Bpsk Modulation

**Dac-Nhuong Le, Abhishek Kumar
Pandey, Sairam Tadepalli, Pramod
Singh Rathore, Jyotir Moy Chatterjee**

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