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QPSK Modulation And Demodulation- Complete Matlab Code With Explanation

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Quadrature Phase Shift Keying (QPSK) is a type of digital modulation technique that encodes data by using four distinct phase shifts (0°, 90°, 180°, and 270°). These phase shifts represent the binary data being transmitted. In this MATLAB code, we will demonstrate the QPSK modulation and demodulation process.

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

$$S_0 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \quad \text{--- represents '0'}$$

$$S_1 = \sqrt{\frac{E_b}{2}} \sin(2\pi f_c t) \quad \text{--- represents '1'}$$

$$S_2 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t) \quad \text{--- represents '2'}$$

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

Where E_b is the energy per bit, f_c is the carrier frequency, and t is time. By using these expressions, we can generate the QPSK modulated signal.

Matlab Code For Bpsk Modulation

BM King



Matlab Code For Bpsk Modulation:

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