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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 values (0°, 90°, 180°, and 270°). Each phase represents a unique combination of two bits, allowing for efficient data transmission. The modulation process involves multiplying the input data by two orthogonal carrier waves (cosine and sine) to create the in-phase (I) and quadrature (Q) components.

The demodulation process involves recovering the original data by multiplying the received signal by the same carrier waves and then filtering the resulting signals.

$$S_I = \sqrt{\frac{P}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } \cos$$

$$S_Q = \sqrt{\frac{P}{2}} \sin(2\pi f_c t) \rightarrow \text{represented by } \sin$$

$$S_R = -\sqrt{\frac{P}{2}} \cos(2\pi f_c t) \rightarrow \text{represented by } -\cos$$

Mathematically, the received signal $R(t)$ is the sum of the transmitted signal $S(t)$ and the noise $N(t)$. The demodulation process involves multiplying $R(t)$ by the carrier waves and then filtering the resulting signals to extract the I and Q components.

Matlab Code For Bpsk Modulation

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