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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, requiring a deep understanding of the underlying principles of digital communication systems. This paper provides a comprehensive overview of the mathematical analysis of QPSK modulation and demodulation, including the derivation of the modulation and demodulation equations, the design of the modulation and demodulation circuits, and the implementation of the modulation and demodulation algorithms in MATLAB.

The following sections provide a detailed description of the mathematical analysis of QPSK modulation and demodulation:

$S_1 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t)$ — represents "1"

$S_2 = \sqrt{\frac{E_b}{2}} \cos(2\pi f_c t + \pi)$ — represents "0"

or

$S_3 = -\sqrt{\frac{E_b}{2}} \cos(2\pi f_c t)$ — represents "0"

Mathematically, the signal energy E_b is the energy per bit, which is the energy of the signal S using [MATLAB](#). [MATLAB](#) will give a single mathematical formula for the signal energy.

Matlab Code For Bpsk Modulation

CL Gary



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