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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 phases (0°, 90°, 180°, and 270°). Within the two baseband signals (cosine and sine), each bit pair (00, 01, 10, 11) is mapped to a unique phase shift, with each bit pair representing two consecutive bits in the data stream.

This principle can be seen in the following mathematical expressions:

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

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

or

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

Mathematically, the symbol energy  $E_b$  is the energy per symbol. By using the concept of the symbol energy  $E_b$ , we can get a single mathematical formula for the QPSK signal.

# Matlab Code For Bpsk Modulation

**G Orfield**



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