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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, covering the key concepts and equations involved in the process. The analysis is presented in a clear and concise manner, making it accessible to students and researchers alike. The results of the analysis are presented in a series of plots, which illustrate the performance of the QPSK system under various conditions. The conclusion of the paper is that the mathematical analysis of QPSK modulation and demodulation is a critical component of the design and optimization of digital communication systems.

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

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

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

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