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QPSK Modulation-Quadrature Phase Shift Keying modulation

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The BPSK modulator accepts a series of information symbols drawn from the set $m \{0,1\}$, modulates them and transmits the modulated symbols over a channel. The general expression for generating a M-PSK signal set is given by. Here, M denotes the modulation order and it defines the number of constellation points in the reference constellation. The value of M depends on the parameter k - the number of bits we wish to squeeze in a single M-PSK symbol.

MATLAB Code for BER Performance of BPSK Digital Modulation (<https://www.mathworks.com/matlabcentral/fileexchange/44823-matlab-code-for-ber-performance-of-bpsk-digital-modulation>), MATLAB Central File Exchange. Retrieved November 12, 2020.

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Matlab code for BPSK waveform generation and demodulation by Dr. VBK Matlab program for BPSK BER under AWGN channel by Dr. K. Vinoth Babu Matlab program for BPSK modulation and demodulation by Dr. K. Vinoth Babu BPSK Signal Generation and Reconstruction using MATLAB by Dr.K.Vinoth Babu, VIT University **GENERATION OF BPSK SIGNAL IN MATLAB**

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Description. bpskmod = comm.BPSKModulator creates a modulator System object™ bpskmod, that modulates the input signal using the binary phase shift keying (BPSK) method. bpskmod = comm.BPSKModulator (Name,Value) creates a BPSK modulator object bpskmod, with each specified property set to the specified value.

BPSK Modulation And Demodulation- Complete Matlab Code With Explanation. Binary Phase Shift Keying (BPSK) is a type of digital modulation technique in which we are sending one bit per symbol i.e., '0' or a '1'. Hence, the bit rate and symbol rate are the same.

This program simulates BER of BPSK over AWGN channel and compares with theoretical rate.

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function [s_bb,t] = bpsk_mod(ak,L) %Function to modulate an incoming binary stream using BPSK(baseband) %ak - input binary data stream (0's and 1's) to modulate %L - oversampling factor (Tb/Ts) %s_bb - BPSK modulated signal(baseband) %t - generated time base for the modulated signal N = length(ak); %number of symbols a = 2*ak-1; %BPSK modulation ai= repmat(a,1,L).'; %bit stream at Tb baud with rect pulse shape ai = ai(:).';%serialize t=0:N*L-1; %time base s_bb =

ai;%BPSK modulated baseband signal

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Difference between QPSK modulation,BPSK modulation types,QPSK modulation matlab code links are also provided. As mentioned QPSK stands for Quadrature Phase Shift Keying. It is digital modulation technique. QPSK is bandwidth efficient as each signal point represents two bits.

QPSK Modulation-Quadrature Phase Shift Keying modulation

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