

PERFORMANCE EVALUATION OF BER FOR AWGN, AWGN MULTIPATH AND RAYLEIGH FADING CHANNELS

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Abstract-The objectives of this paper are to study, analyze and evaluate the performance of BER (Bit Error Rate) in mobile multipath fading propagation channel. The parameters which are considered for the performance evaluation are AWGN, AWGN Multipath, Rayleigh fading channel and Hadamard code generator. The results are derived for different types of digital modulation (i.e. BPSK, QPSK) using Matlab Simulation link.

Keywords- Spread Spectrum, AWGN, BPSK, QPSK, BER, SNR.

I. INTRODUCTION

Spread spectrum is a radio communication system in which the baseband signal bandwidth is intentionally spread over a large bandwidth by injection of higher frequency noise-like signal [2]. In this transmission technique the frequency spectrum of a data signal is spread using a code uncorrelated with that signal. As a result the bandwidth occupancy is much higher than required. The codes used for spreading have low cross-correlation values and are unique to every user. This is the reason that a receiver which has knowledge about the code of the intended transmitter is capable of selecting the desired signal. This paper has been proposed a simulink-based model of the performance of BER in AWGN, Rayleigh and AWGN multipath channel using digital modulation techniques.

II. MODULATION TECHNIQUES

A. BPSK (Binary Phase Shift Keying)

BPSK is the simplest form of PSK. It uses two phases, one phase represents logic 1 and the other phase represents logic 0 [3]. As the input digital signal changes state (i.e. from 1 to 0 or from 0 to 1) the phase of the output carrier shifts between two angles that are separated by 180° . Hence, other names for BPSK are phase reversal keying (PRK) and 2-PSK.

B. QPSK (Quadrature Phase Shift Keying)

QPSK is one example of M-ary PSK modulation technique. In QPSK, two successive bits in the data sequence are grouped together. This reduces the bit rate or signalling rate and thus reduces the bandwidth of the channel [4].

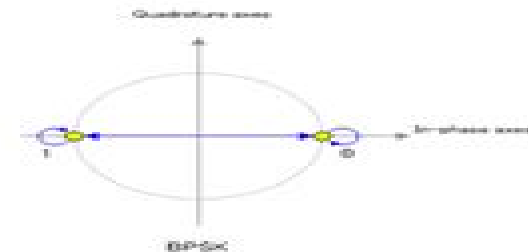


Fig. 1 Constellation diagram of BPSK.

The combination of two bits in QPSK forms four distinct symbols (i.e. 00, 01, 10, and 11). When the symbol is changed to next symbol than the phase of the carrier is changed by 45° .

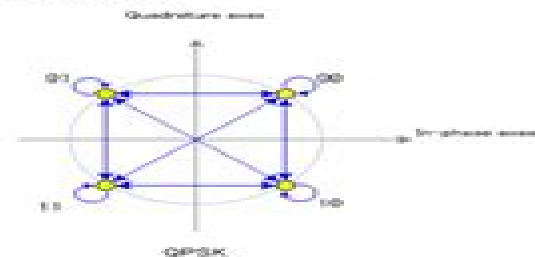


Fig. 2 Constellation diagram of QPSK.

III. NOISE AND INTERFERENCE

A. SNR (Signal to Noise Ratio)

The signal to noise ratio is the ratio between the wanted signal and the unwanted background noise.

$$\text{SNR} = \frac{P(\text{signal})}{P(\text{noise})}$$

Usually SNR is expressed in a logarithmic basis using decibels as –

$$\text{SNR (dB)} = 10 \log_{10} \frac{P(\text{signal})}{P(\text{noise})}$$

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