Abstract

In digital communication, transmission of binary data based on bandwidth & modulation/demodulation techniques. Probability of bit error will increase if more no. of bits transmitted over limited bandwidth. This error decreases the overall spectral efficiency. To improve spectral efficiency and to minimize the BER probability SSB-QPSK is used. This project shows the comparative study of bit error rate (BER) and performance analysis of SSB-QPSK transmission over AWGN channel & Rayleigh channel with error correcting codes and also shown the effect of noise on received symbol using constellation diagrams with the help of MATLAB simulation.
BER Performance Analysis of SSB-QPSK over AWGN and Rayleigh Channel

References

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Index Terms

Computer Science

Wireless Network
Keywords
Single Sideband  Quadrature Phase Shift Keying  Awgn Channel  Rayleigh Fading
Channel
Convolution Code & Turbo Code