Abstract

Error rates of orthogonal frequency division multiplexing (OFDM) signals are considered for system using multichannel reception with maximum ratio combining (MRC) receivers in Nakagami-m fading generated by sum of sinusoidal method using Rayleigh and Ricean channel. The paper also discusses the effect of frequency offsets, nakagami-m parameter m on OFDM systems. Also effect of frequency offset on signal to noise plus interference ratio (SINR) for different SNR values is discussed. A closed form expression for probability of error is derived and theoretical and simulated results are compared for various receivers, frequency offsets.

Reference


**Index Terms**

Computer Science

Communication

Systems

**Key words**

OFDM

MRC

SNR
Bit Error Rate Analysis for OFDM Systems for MRC Receivers in Nakagami- $m$ Fading Channel generated by Using Rayleigh and Ricean Fading