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

- A. Behravan and T. Eriksson, ”PAPR and Other Measures for OFDM Systems with Nonlinearity” in wireless personal multimedia communications WPMC, Vol. 1, pp. 149-153, 2002


