Abstract

Orthogonal Frequency-Division Multiplexing (OFDM) is essentially identical to coded OFDM (COFDM) and discrete multi-tone modulation (DMT). It is a frequency-division multiplexing (FDM) scheme, which is used as a digital multi-carrier modulation method. The paper is aimed at analyzing the BER performance of the MIMO (Multi-Input Multi-Output) OFDM system for
AWGN (Additive White Gaussian Noise) Channel, Rayleigh Fading Channel along with a simulation channel using different modulation technique. Also the result of the analysis suggest for the better technique in order to improve the BER characteristic of the MIMO-OFDM system.

Reference

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Index Terms

Computer Science

Communications

Key words

Cyclic prefix

Guard period

MIMO OFDM

Zero padding