Abstract

Bit Error rate of OFDM is carried out with the help of cyclic prefix and the length of a guard interval varies. The BER is low for the given system indicates that amount of data received at the receiver is equal to the data transmitted by transmitter. To achieve best communication guard interval is used between the subcarriers and effect of Inter Carrier Interference (ICI) can be reduced by maintain orthogonality between subcarriers. Different guard length is used over here to analyze distortion for the additive white Gaussian noise and Rayleigh fading channels and avoid Inter symbol Interference (ISI).

References

2. J. Talvitie, T. Levanen, and M. Renfors, “Channel Estimation in Time-Varying Flat-Fading
Bit Error Rate of Orthogonal Frequency Division Multiplexing System


Index Terms

Computer Science Circuits and Systems

Keywords

Orthogonal Frequency Multiplexing Division (OFDM), Guard Interval (GI), cyclic prefix and Quadrature Amplitude Modulation (QAM).