Implementation of OFDM Transceiver using GMSK and QPSK Encoding Technique

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Abstract

OFDM (Orthogonal Frequency Division Multiplexing) transmissions are arising as important modulation techniques because of its robustness against interference. Various modulation schemes have been used to implement OFDM. In this paper, the OFDM transceiver system is implemented using MATLAB. Gaussian Minimum Shift Keying modulation technique has been implemented in the proposed OFDM. The bit error rate (BER) performance has been evaluated in AWGN (Additive White Gaussian Noise) channel and is compared to Quadrature Phase Shift Keying modulation scheme.

References

3. Deergha Aggarwal et al., “PAPR Reduction Using Precoding and Companding
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25. Neenu Joseph et al., “FPGA based Realization of OFDM Transceiver system for
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Keywords

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