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# Perfomance of PAPR Reduction in OFDM System for Wireless Communications

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**Abstract :** The Orthogonal Frequency Division Multiplexing (OFDM) is a special form of multicarrier transmission that splits the total transmission bandwidth into a number of orthogonal and non-overlapping subcarriers and transmit the collection of bits called symbols in parallel using these subcarriers. In this paper, we explore the Peak to Average Power Reduction (PAPR) problem in OFDM systems. We provide the performance analysis of CCDF and BER through MATLAB simulations.

**Keywords :** bit error ratio (BER), OFDM, peak to average power reduction (PAPR), sub-carriers
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