A PAPR Reduction Scheme by Transforming a 16-ary OFDM Signal to a 4-ary OFDM Signal

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ABSTRACT

A PAPR reduction scheme which transforms a 16-ary OFDM signal-to a 4-ary one, is proposed for OFDM communication systems. The simulation results are utilized to evaluate their performances, where a CCDF 10-3 is used for the basis of performance evaluations. From our simulation results and compared to the PAPR of the 16-ary OFDM signals, the proposed scheme provides a PAPR reduction of 3.6dB that is 1.6dB higher than that achieved by transforming a 16-ary a 8-ary OFDM signals.

Keywords : PAPR   CCDF

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