

The Development and Study in Applying OFDM-256 Access Techniques Combining with IEEE802.16 (WiMax) Protocols

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ABSTRACT

ABSTRACT It is known that the channels fading will introduce a complicated multiple distortion and definitely additive noise component for an OFDM (orthogonal frequency division multiplexing) system. The performance analysis of OFDM system working over correlated-Weibull fading channels with arbitrary parameters was studied in the letter. Some of the exact closed-form expressions of the system BER are derived for the OFDM system under the situations, which based on the determination of the PDF (probability density function) and CDF (cumulative distribution function) at the out of a RAKE receiver. The obtained formulas included the Weibull fading correlation scenario. The numerical evaluation is also held for proving the correctness of the derived equations.

Keywords : OFDM ; Weibull fading channels ; BER ; SC combining

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