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George Plosker
Client Services Manager
August 2007



Agenda

- About the IEEE
- IEEE information scope and quality
- IEEE *Xplore* overview (live training)
- Questions and Answers

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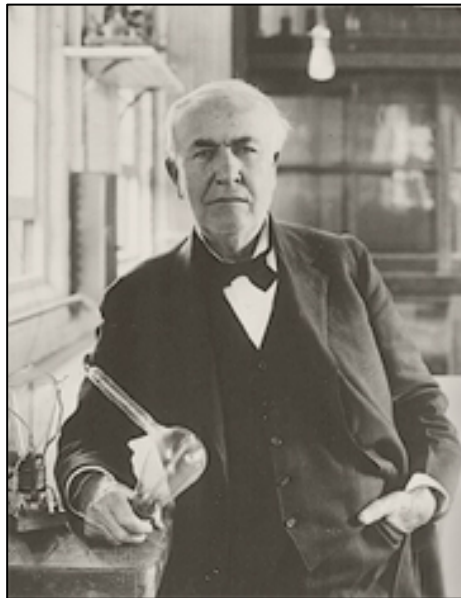


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TOT Corp. Public Co. Ltd., Bangkok, Thailand

This paper appears in: [Communications Letters, IEEE](#)
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Abstract

In this letter, we present closed form expressions for the exact average symbol-error rate (SER) of M-ary modulations with **multichannel reception** over Nakagami-m fading channels. The derived expressions extend already available results for the nondiversity case, to maximal-ratio combining-(MRC) and postdetection equal-gain combining (EGC) diversity systems. The average SERs are given in terms of Lauricella's multivariate hypergeometric function $F_D/\sup(n)$. This function exhibits a finite integral representation that can be used for fast and accurate numerical computation of the derived expressions.

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Accurate error-rate performance analysis of OFDM on frequency-selective Nakagami-m fading channels

Zheng Du, Cheng, J., Beaulieu, N.C.
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This paper appears in: [Communications, IEEE Transactions on](#)
Publication Date: Feb. 2006
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ISSN: 0090-6778
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Digital Object Identifier: 10.1109/TCOMM.2005.863729
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Abstract
Error rates of orthogonal frequency-division multiplexing (OFDM) signals in multipath slow fading Nakagami-m fading channels are considered. The exact probability density function of a sum of Nakagami-m random phase vectors is used to derive a closed-form expression for the error rates of OFDM signals. The precise error-rate analysis is extended to a system using multichannel reception with maximal ratio combining. An asymptotic error-rate analysis is also provided. For a two-tap channel with finite values of Nakagami-m fading parameters, our analysis and numerical results show that the asymptotic error-rate performance of an OFDM signal is similar to that of a single carrier signal transmitted over a Rayleigh fading channel. On the other hand, our analysis further shows that a frequency-selective channel that can be represented by two constant taps has similar asymptotic error-rate performance to that of a one-sided Gaussian fading channel. It is observed that, depending on the number of channel taps, the error-rate performance does not necessarily improve with increasing Nakagami-m fading parameters.

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1. A. Glavieux, P. Y. Cochet, and A. Picart, "Orthogonal frequency division multiplexing with BFSK modulation in frequency selective Rayleigh and Rician fading channels," *IEEE Trans. Commun.*, vol. 42, no. 2W-4, pp. 1919-1926, Feb./Mar./Apr. 1994.
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2. J. Lu, T. T. Tjhung, F. Adachi, and C. L. Huang, "BER performance of OFDM-MDPSK system in frequency-selective Rician fading with diversity reception," *IEEE Trans. Veh. Technol.*, vol. 49, no. 7, pp. 1216-1225,

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- 1 A. Glavieux, P. Y. Cochet, and A. Picart, "Orthogonal frequency division multiplexing with BFSK modulation in frequency selective Rayleigh and Rician fading channels," *IEEE Trans. Commun.*, vol. 42, no. 2W-4, pp. 1919-1928, Feb./Mar./Apr. 1994.
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