

Packet Error Probability for Diversity Systems in Slow Rayleigh Fading and Gaussian Noise

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Abstract

Analytical results on packet error probability for noncoherent frequency-shift-keying (NCFSK) and differential phase-shift-keying (DPSK) systems with diversity reception operating over slow Rayleigh fading channels with Gaussian noise are derived. Expressions obtained are applicable to two linear combining schemes: selection combining and maximal-ratio combining.

Key word Probability, Diversity, Fading