

# **Performance Of Coherent Schemes With Generalized Selection combining In Rayleigh Fading**

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**Personal, Indoor and Mobile Radio Communications, 2001 12th IEEE International Symposium on;Publication Date: Sep 2001;Vol: 1, On page(s): B-95-B-99 vol.1;ISBN: 0-7803-7244-1**

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## **Summary**

A performance criterion for any coded modulation schemes is the cutoff rate. This is examined for schemes employing generalized selection combining (GSC). The cutoff rate expression is derived and presented for the GSC. A simplified performance analysis of coherent M-ary phase shift keying (nPSK) for GSC is also given for independently and identically distributed Rayleigh fading. These expressions are valid for any arbitrary number of diversity branches, M and combining order, m

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