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Error Rate Performance for Coherent Modulation Techniques with Switched and Examine Diversity Combining over Weibull Fading Channels

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Abstract: In this paper, we evaluate the bit error rate (BER) performance of PSK modulation schemes over independent and identically distributed L branches Weibull fading channel with selection and examine combining (SEC) diversity technique. We use the probability density function (pdf) approach in the BER evaluation. The derived expression for the BER is obtained in terms of known functions that are easy to evaluate. Numerical results are presented for the BER as a function of the average SNR.