Comparison and Investigation with LCR and AFD Methods to Estimate the Selection Combining Working in Generalized Fading

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ABSTRACT

In this paper the performance evaluation with the average LCR (level crossing rate) and AFD (average fading duration) criterion are applied to analyze the SC (selection combining) diversity. The fading channel models are characterized as Rayleigh and Rician distributed statistics. Both of the independent branches and the correlation proprieties between branches are considered in this investigation. In order to compare the performance results between the different fading channels for SC with average LCR and AFD performance, it is not only the results from our study presented, but the propagation fading channels are with dual-branch Nakagami-m and Weibull statistics that have been presented are also shown in this study.

Keywords : Rayleigh ; Rician ; Nakagami-m ; Weibull Fading Channel ; SC Diversity ; LCR ; AFD

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