



RESEARCH ARTICLE

Performance Evaluation of Rayleigh Multipath Fading Channel using Rectangular QAM schemes

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Abstract— Fading is nothing but the degradation in signal strength and occurs mainly due to reflections from a stratified atmosphere or from surface land along the path. Such fading also causes multipath effects which result in constructive or destructive interference in the level of the incoming signal. Multipath fading varies with path length, frequency, climate and terrain. In dry, windy, mountainous areas, the multiple path phenomenon is virtually non-existent. Flat terrain along a path tends to increase the incidence of fading. Fading is prominent in hot, humid coastal regions. In this paper Rayleigh Multipath fading channels is considered and the performance analysis of it is done using Rectangular QAM schemes like 16 QAM, 64QAM and 128 QAM using the Simulink tool.

Key Terms: - fading; interference; Rectangular QAM; Simulink

Full Text: <http://www.ijcsmc.com/docs/papers/May2013/V2I52013124.pdf>