Abstract

In wireless communication systems antenna diversity is an important technique to combat deep fading to improve the system performance and to increase the channel capacity. The fast and random fluctuation of the received signal strength is usually called fading. Diversity technique has been taken into consideration to mitigate the effects of fading by generating several copies of the signal, which experience independent or estimated independent fading, to decrease the probability of instantaneous deep fades. This paper presents the performance analysis of a system in various diversity mechanism environments by improving bit error rate (BER).

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Index Terms

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Wireless
Keywords
BPSK modulation  Bit Error Rate(BER)  Rayleigh Channel  MRC  Selective Combining(SC)
Equal Gain Combining (EGC)

Beamforming Technique

Alamouti STBC Technique