

STBC (SPACE - TIME BLOCK CODED) MIMO SYSTEM

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ABSTRACT

The performances of a STBC (Space Time Block Coded) MIMO wireless link are analyzed considering Rayleigh fading. Maximal ratio combining technique has been considered in the receiver over a PSK channel. The expressions for signal to noise ratio and bit error rate (BER) are derived for multiple Transmitter and Receiver antenna configurations. Performance results are evaluated by Matlab to find the improvement in system performance. It is found that if we increase number of transmitting antenna, we are able to get better performance for MIMO (multiple input multiple output) systems.

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