Abstract

The main aim of OFDM-MIMO systems is to combine OFDM technology with the techniques of MIMO systems. The growing demand of multimedia services and the growth of Internet related contents lead to increasing interest to high speed communications. OFDM is a type of multichannel modulation that divides a given channel into many parallel sub channels or subcarriers, so that multiple symbols are sent in parallel. In this paper, a simulation model of OFDM-MIMO system based on STBC4 is built. BER performance of the system with different number of transceiver antennas like 4X1, 4X2, 4X3, 4X4 with OFDM are analyzed and simulated under different channels considering different modulation modes such as PSK and QAM. The spatial diversity is increased by employing OFDM-MIMO with STBC.

References

Performance Analysis of MIMO-OFDM by Spatial Diversity with STBC4


Index Terms
Keywords
Ofdm  Mimo  Stbc  Spatial Diversity  Ber