Orthogonal frequency division multiplexing (OFDM) is a technique that allows digital data to be efficiently and reliably transmitted over a radio channel even in heavy multipath environment. In the present paper we have investigated an OFDM based wireless Communication system by transmitting and receiving a compressed image. The Bit error rate and runtime results of multicarrier OFDM are reported to investigate the effect of number of carriers and IFFT size for MPSK modulation schemes. The QPSK has come out as a suitable scheme for OFDM based systems.
Orthogonal Frequency Division Multiplexing Based Wireless Communication System for Digital Broadcast Applications

Reference

5. lun Zhang, Zhongpei Zhang “Simulation and Analysis of OFDM System Based on Simulink” National Key Laboratory of Science and Technology on Communications ,UESTC, Cheng DU, China 978 1-4244-8223-81101$26.00 ©2010 IEEE
7. Paul Guanming Lin “OFDM SIMULATION in MATLAB”, California Polytechnic State University, San Luis Obispo, June 2010

Index Terms

Computer Science Communications

Key words

The inter-symbol interference

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