Abstract

In this paper, the analysis of performance of serially concatenated codes constituted by Reed-Solomon (RS) and Recursive Systematic Convolutional (RSC) codes in term of bit error rate (BER) and latency over Binary phase shift key (BPSK) and Quadrature phase shift key (QPSK) modulation technique using MATLAB software is performed. This model of serially concatenated codes uses RS as outer encoder and RSC as inner encoder. The MATLAB simulation results shows that the performance of RS-RSC concatenated codes in term of BER is better with QPSK modulation over AWGN channel. The effect of variation of code rate is also analyzed. It is found that QPSK outperforms BPSK in RS-RSC concatenated code in terms of BER.
References


Index Terms

Computer Science  
Signal Processing

Keywords

Ber; Qpsk;bpsk;awgn; Matlab; Rs-rsc.