Abstract

This article proposes a new approach to digital modulation techniques. A novel design for a QPSK VHDL modulator to convey a high data rate transmission is demonstrated. Basically CPLD or FPGA technology is used to generate hardware and the hardware generation is possible from VHDL code. The implementation of the device is done to perform the modulation. Then the data transmission rate also increases. This types of modulator provides digital synthesis and the flexibility to reconfigure and upgrade with the two most often languages used being VHDL and Verilog (IEEE Standard) being used as hardware structure description languages.
A Novel Design of QPSK Modulator for High Data Rate Transmission


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Index Terms

Computer Science  
Signal Processing

Keywords

Bpsk ; Qpsk ;vhdl