Novelty in QPSK Modulation using Cordic Based Technique

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Abstract: *As is common to all digital communication systems, both the modulator and demodulator must be designed at the same time. How data is encoded and represented in the communications system transmitter-receiver pair have prior knowledge of it so that Digital communication is possible. The modulator and the demodulator are structured like that they will behave opposite to each other in all digital communication systems, both the modulator at the transmitter and the demodulator at the receiver are structured such that they operate opposite to each other. Most communications systems make up one amongst 3 categories: information measure economical, power economical, or cost efficient. In this paper CORDIC rotation based QPSK technique is used for the carrier synchronization.*

Keywords: Modulation, QPSK, CORDIC, Phase-shifting, Carrier synchronization

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