Abstract

Modulation plays an important role in transmission of single from transmitter to receiver in all communication systems. But it is vital in wireless communication and a lot of communication features including (data rate, error rate, symbol rate, bandwidth etc) depends upon it. In NS2 wireless network simulation BPSK is used for digital encoding and modulation of data [1,2]. The BPSK method is used by wireless/phy object that is inherited by Modulation Class. In this paper QPSK is used in place of BPSK and analyzed in terms of data rate, error rate and power consumption in NS 2 simulation. Also the proposed code for QPSK modulation is given in this paper.

References

- Mirghiasaldin Seyedebrabhami and Xiao-Hong Peng, "Investigation of PHY, MAC
and APP Layers for Adaptive and Cross-Layer Optimization in IEEE802.11 WLAN; Computer and Information Technology (CIT), 2010 IEEE 10th International Conference on.
- Wireless Communication & Networks by William Stallings.
- Wireless Communication by Andre Goldsmith.
- An Introduction to C++ by Björn Fahller.
- Thinking in C++ by Bruce Eckel.
- Modulation by MAX Reger.
- C++ How to Program by Dietel & Dietel.
- Fundamentals of Wireless Communication by David Tse and Pramod Viswanath.

**Index Terms**

Computer Science  Wireless

**Keywords**

Modulation Techniques  Wireless Networks  Network Simulator 2 (ns2)