ABSTRACT

The performance of Truncated Costas Optical Orthogonal Codes (TC OOCs) in Fiber Optic CDMA LANs System is investigated. Programs for generating the codes, evaluating the auto-correlation, cross-correlation and calculating BER are designed. TC OOCs on GF(p) where p is a prime number for $7 \le p \le 31$ are studied. The obtained results show that TC OOCs generated by 1 generator on GF(p) are (w(2p-3), w, 2, 2)codes for chip synchronous systems.

