Abstract

With the advancement in the technology, the needs of the users are also growing. The demand for higher bandwidth is one of these requirements. In order to fulfill this, Fiber Optic communication is developed. It transfers the data in the form of light waves and also achieves higher data transmission rate by facilitating the wider bandwidth for transmission. This mode of communication uses various encoding schemes such as NRZ and various communication channels to improve the quality of communication.

The implementation is done by using optisystem. The various encoding schemes are implemented with three different communication channels. It is observed that MDRZ outnumber rest of the encoding scheme with respect to the value of BER and Q. Factor.

References


19. S. Appathurai et al. (2005)“Nonlinearity and in-line residual dispersion tolerance of π-AP-RZ and CS-RZ modulation formats in 40-Gb/s transmission over standard single-mode
Comparison of MDRZ, CSRZ and DRZ schemes using different Communication Channels


Index Terms
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Keywords

Fiber Optic Communication, FSO, OWC, MDRZ, CSRZ, DRZ