Abstract

This paper based on study of communication system over fiber optics. To design high speed system with high performance it is necessary to compensate the dispersion with the help of Fiber Bragg Grating. The performance of communication system simulation is done on Optisystem simulator Vr.12 at different parameters of the system. A high speed NRZ signal is transmitted over SSMF. By simulating the design of optical communication system at different values which includes Q-Factor, Min BER, MZM-Extinction Ratio, FBG length is evaluated. With the help of eye diagram get better result.

References


**Index Terms**

Computer Science  
Communications

**Keywords**

Optical Fiber Communication, Fiber Bragg Grating, Dispersion compensation, Optisystem Simulator.