Abstract

In this paper we study and analyze Bit Error Rate (BER) performance for optical communication system using Differential Phase Shift Keying (DPSK) modulation scheme. Specifically, after developing an approximate form BER expression, we study the BER performance for different system parameters such as fiber length, gain and number of amplifier. With the aid of analysis and simulation results we demonstrate the influence of different system parameters on the BER performance of an optical system using differential modulation schemes.

References

BER Performance Analysis for Optical Communication using DPSK Modulation


Index Terms

Computer Science

Communication Systems
Keywords
Communication and Network  Signal Processing for Communications  Optical Fiber Communication