Abstract
Fiber Optics has emerged as a major building block in terrestrial telecommunication industry. Optical networks are very high capacity networks, capable to transmit maximum number of bits/sec over maximum possible distance with fewest errors. Optical Fiber systems require hundreds of considerations regarding design such as the type of fiber, modulation scheme, source, type of filters, amplifiers etc. This paper studies and evaluates Single and Multimode fiber transmission with two different modulation schemes (RZ and NRZ). Here Q estimation is done to evaluate the quality of fiber under different conditions. Further to compensate dispersion; Bragg’s dispersion grating is employed.

References

- Optsim Models Reference.

Index Terms
Keywords
Modulation Schemes          Attenuation          Eye
Diagrams
Fiber Transmission
Multi Mode fiber
Pulse Dispersion
Eye Opening
Eye Closure