Abstract

The tremendous growth of the high speed Internet and data traffic has created an enormous demand for transmission bandwidth of dense wavelength division multiplexed (DWDM) optical communication systems. With the advancement of wideband fiber-optical amplifiers, DWDM optical transmission systems are capable of providing capacities in excess of hundreds of gigabits per second over hundreds of kilometers on a single pair of fibres in long-haul networks. In this paper the investigations in FIBRE Distributed ring for wide area network for six nodes, 45 channels. The main target of this research work is to reduce the data impairment in the data transmission. In this manuscript we investigate the performance on the basis of Q factor, Eye diagram and BER from the simulation setup designed on Hybrid Optical Amplifier in Fiber Distributed Ring for Wide Area Network.

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**Index Terms**

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**Keywords**

FDDI, SOA, RAMAN, EDFA, WDM, HA.