Received Power Improvement using SOA in All-optical Networks

Abstract

Network management for optical networking facing many problems as the system capacity and complexity increasing day by day that arises by using the transparent optical network components in communication system. In this article we are proposing a novel scheme of all optical networking management system. Semiconductor optical amplifier (SOA) is used after the channel to equalize the signal power which will help us to reduce crosstalk and reduce the probability of the failure of the network. Network failure occurs in the network by increasing the signal power by external source therefore amplified signal travel longer distance then the required distance. To overcome from this problem SOA is used to equalizing the power and to reduce the networks failures.

References


**Index Terms**

Computer Science  Communication Systems

**Keywords**

Optical Communication  Network management  SOA