

عنوان مقاله:

Design of Arrayed Waveguide Grating based Optical Switch for High Speed Optical Networks

محل انتشار:

ماهنامه بین المللی مهندسی، دوره 29، شماره 7 (سال: 1395)

تعداد صفحات اصل مقاله: 7

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خلاصه مقاله:

This paper demonstrates the design of an Arrayed Waveguide Gratings (AWG) based optical switch. In the design both physical and network layer analysis is performed. The physical layer power and noise analysis is done to obtain Bit Error Rate (BER). This has been found that at the higher bit rates, BER is not affected with number of buffer modules. Network layer analysis is done to obtain performance in terms of packet loss rate and average delay. Analysis presented in the paper clearly reveals that there is a minimum amount of power required, which is necessary for the satisfactory performance of switch both at physical and network layer.

کلمات کلیدی:

Optical Packet Switch, Bit Error Rate, PLR and Average Delay, Arrayed Waveguide Grating

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