عنوان مقاله:

Simulative Analysis of DWDM-PON System by Using EDFA and FBG for Different Modulation

محل انتشار:

هشتمین کنفرانس ملی مهندسی برق و الکترونیک ایران (سال: 1395)

تعداد صفحات اصل مقاله: 4

نویسندگان:

Ali Mir - *Department of Electronic Lorestan University, Khorram-Abad, Iran*

Akram Sheikhi - *Department of Electronic Lorestan University, Khorram-Abad, Iran*

Abbas Alipour - *Department of Electronic Lorestan University, Khorram-Abad, Iran*

خلاصه مقاله:

Today Dense Wavelength Division Multiplexing (DWDM) has a considerable role in optical communication system. This technology consisting of three main block that every block have passive or active component. In present study, we proposed DWDM passive optical networks (PON) system consisting of optical amplifier Erbium Doped Fiber Amplifier (EDFA) and Fiber Bragg Grating (FBG) for different data format such as non-return to zero (NRZ) and return to zero (RZ). We simulation 32 channel DWDM-PON system at 2.5 Gbps bit rate with different modulation for a coverage distance of 300 km. Also the effect of transmission link and parameter input on operation of system has been studied. The result of proposed system estimated by Bit Error Rate (BER) measurements

کلمات کلیدی:

DWDM, EDFA, FBG, BER