Abstract

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Noise Figure and Gain Coefficient of Doped Fiber Amplifiers for Different Host Materials

rhis paper provides a numerical investisation of the noise performance of erbium doped fiber unplifiers (EDFAs) and praseodymium doped fiber ampliers (PDFAs) in different types of lost materials. The noise figure and gain coefficient are calculated for different values of lump and signal wavelenghs and optimum operational conditions are established for using he amplifiers in optical communication systems.