

Abstract

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Dispersion Pre-Compensation for a Multi-wavelength Erbium Doped Fiber Laser Using Cascaded Fiber Bragg Gratings

A dispersion compensator for the output of a multi-wavelength erbium doped fiber laser (EDFL) is designed using the dispersion characteristics of cascaded fiber Bragg gratings (FBGs) through transmission at the light source. The proposed technique can be used to compensate the dispersion of any number of channels by changing the number of the cascaded FBGs.