Chirped fiber Bragg grating (CFBG) provides an attractive solution for low cost dispersion compensation in a fiber optic transmission system. This kind of grating can be produced with a large chirp parameter and period sampled distribution along the grating length. The present work carries out the design optimization of a chirped FBG in respect of chirp bandwidth and apodization in achieving optimum dispersion compensation in a 20Gbps optical transmission link for different modulation formats.

References


Analysis of a Special Period Sampled Bragg Grating (PSBG) Structure Combined with the Large Chirp Parameter

university.


Index Terms

Computer Science

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Fiber grating; Large chirp parameter; Period Sampled Distribution; Dispersion compensation; chirp bandwidth Grating Length, apodization optimum.