Abstract

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

university.


Index Terms

Computer Science
Circuits and Systems

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