

In conclusion, we have numerically analyzed the effect of higher-order nonlinearity on the spectral properties of a nonlinearly chirped fiber grating having sinusoidal cladding function profile ...

We present the tuning of the dispersion properties of a femtosecond (fs) laser inscribed chirped fiber Bragg grating (CFBG), realized by selectively modifying the refractive index of the...

Considering the nonlinearity in the amplification system, two temperature-tuning cascaded chirped fiber Bragg gratings (CFBGs) with a large dispersion of 200 ps/nm are employed ...

The objective of the present study is to examine the behaviors of chirped optical solitons in fiber Bragg gratings (BGs) with dispersive reflectivity. The form of nonlinear refractive index ...

Compared to FBGs, these dependences constitute a setback in the design method for chirped IBGs that can be leveraged to enable new ways of designing chirped IBGs.

Nonlinearly Chirped Fiber Bragg Grating Photonic Generation of Chirped Millimeter-Wave Pulses Based on Nonlinear Frequency-to-Time Mapping in a Nonlinearly Chirped Fiber Bragg Grating Chao Wang ...

This paper analyzes the principles of linear chirped fiber gratings and nonlinear chirped fiber gratings, and on the basis of summarizing the current design of chirped fiber gratings, two implementation ...

Fiber Bragg Gratings (FBGs) are one of the most popular technology within fiber-optic sensors, and they allow the measurement of mechanical, ...

The present work carries out the design optimization of a chirped FBG in respect of grating length, chirp bandwidth and apodization profile in achieving optimum dispersion and dispersion slope ...

To lower the system's nonlinearity, two temperature-tuning cascaded chirped fiber Bragg gratings (CFBGs) with a large dispersion of 200 ps/nm are used as the stretcher to stretch the pulse ...

In this paper, numerical solutions for the reversed optical fiber Bragg gratings that are considered with a cubic-quintic-septic form of nonlinear medium are constructed first time by using...

The present work investigates the chirped optical solitons in a medium of fiber Bragg gratings (BGs) with dispersive reflectivity. BGs is considered here with polynomial law of nonlinear ...



Nonlinearity of Chirped Fiber Bragg Grating Systems

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