Double Gain Fiber Bragg Grating

Fiber Bragg Grating (FBG) is defined as a passive filter device that consists of a diffraction grating created by periodic modulation of the refractive index in the fiber core, allowing it to reflect specific ...

A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and transmits all others.

We demonstrate the fabrication of a high-quality fiber Bragg grating (FBG) in a large mode area passive double-clad fiber (DCF) using femtosecond laser multi-layer line-by-line inscription.

In this work, we introduce a general simulation and design framework for WBGs, which combines coupled mode theory with three-dimensional finite-element method eigenfrequency computations. ...

Fiber Bragg gratings are reflective structures in the core of an optical fiber with a periodic or aperiodic perturbation of the effective refractive index.

Fiber Bragg grating (FBG) is a relatively novel method used for network health monitoring that has a number of advantages including high accuracy, multiplexing, electromagnetic interference ...

In this chapter, we propose several schemes for fiber amplifiers which are all using fiber Bragg gratings (FBGs) as the key elements for their advantages of better uniformity, higher contrast ratio and lower ...

Accompanying the growth of Type-IIa Bragg gratings in some active fibers, a new resonance appears at the shorter wavelength. This new type of grating was named "secondary Bragg grating" (SBG). This ...

In this study, the fabrication and characterization of high reflectivity fiber bragg gratings in 30/400 double-cladfibers with wide mode area for use in increasing fiber diameters...

This SPIE Tutorial Text excerpt discusses the usefulness and versatlity of fiber Bragg gratings.

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