

1. Introduction The manufacturing process of fiber Bragg grating (FBG) technology is relatively simple, and such sensors have a lot of technological advantages, for instance, the realization of passive ...

The theory of FBG includes the propagation of modes inside an optical fiber. The relationship between the mode and refraction index of a Bragg diffraction grating plays an important role on the type of the ...

In fiber grating a periodic perturbation of refractive index along the fiber length is formed. These perturbations scatter light. It selectively reflects a narrow range of wavelength. Each time the light ...

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A variation of the period of the grating inscribed in a fiber optic - induced by mechanical or thermal perturbation - causes a shift of the reflected peak wavelength, due to the related optical path length ...

According to the characteristics of the grating pitch on the FBG, it can be divided into: Uniform Fiber Bragg Gratings with regular spacing, Long-period Fiber Bragg Gratings, Phase-shifted Fiber Bragg ...

He worked there as an electronic engineer between 2012 and 2016, mainly developing projects concerning optical sensors and fiber Bragg grating devices. He currently works as an Intellectual ...

When the spatial periodicity of the modulation matches what is known as a Bragg condition with respect to the wavelength of light propagating through the grating, the periodic structure acts like a mirror, ...

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.

Bragg gratings are reflecting structures with a periodic refractive index modulation. They are contained in dielectric mirrors and in some fiber devices.

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