

First, we show that writing grating reflectors through the fiber coating using an ultrafast laser improves reliability and enables higher pump power handling. The use of ultrafast laser technology also offers ...

A fiber Bragg grating (FBG) is a periodic structure inscribed in the core of an optical fiber, where the refractive index varies along its length, transitioning between higher and lower values.

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

FBGs were originally employed in telecommunication systems as bandpass filters in add/drop and wavelength division multiplexing (WDM) passive systems; when the FBGs are made with a variable ...

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At Jenoptik, we are specialized in designing and fabricating high-performance diffraction grating solutions, including pulse compression gratings, for a wide range of applications.

Fiber Bragg Grating Products Using our advanced FBG writing technologies with holographic phase mask and ebeam phase mask, we are able to write many different types of fiber Bragg grating such ...

The fabrication of optical components on the top of optical fiber facets using two-photon 3-D printing has opened a new path for the development of next-generation optical fiber sensors.

In this paper, we present a new approach for the rapid distributed detection of localized hot spots in a cryogenic body, using a fiber optic technique. This is achieved using an extended string of ...

Here, we show, for the first time, that bona fide BICs exist in optical fibers with Bragg gratings, despite the vanishingly small index contrasts.



# Dominic fiber optic grating

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