

In the proposed sensor design, a sensing fiber with an inscribed high-order Bragg grating is attached to the observed metal surface.

In this paper, we studied the basic characteristics of tilted fiber Bragg gratings (TFBGs), inscribed line-by-line. Experimental results showed that if the TFBGs were located within different ...

AtGrating provides premium quality tilted fiber bragg grating with advanced technologies. TFBG transmitted amplitude spectra are therefore characterized by several tens of cladding mode ...

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

<p>In this paper, the mode coupling mechanism of tilted fiber Bragg gratings (TFBGs) is briefly introduced at first.

Tilted Bragg grating (TBG) has been intensively investigated for photonic devices such as fiber sensors and on-chip filters. In this article, we present that TBG can be equivalently realized by designing the ...

As one type of important photonic components, their unique structure and mode coupling characteristics promise the great application potential of TFBGs in the field of optical fiber communications, fiber ...

Originally, the manufacture of the photosensitive optical fiber and the "writing" of the fiber Bragg grating were done separately. Today, production lines typically draw the fiber from the preform and "write" the ...

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In this paper, a simple tandem writing technique for achieving WB-CTFBGs is proposed and tested for the first time.

In summary, a novel magnetic field sensor based on a D-shaped tilted fiber Bragg grating and magnetic fluid film was presented. The microstructure change of the magnetic fluid was ...

Figure 1: Schematic structure of a fiber Bragg grating (FBG). The fiber core has a periodically varying refractive index over some length.

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