Simulation of Polarization Maintaining Fiber Bragg Grating

A polarization-maintaining random fiber Bragg grating (PMRFBG) array based on the photonic localization effect of longitudinal invariant transverse disorder in fiber structure is proposed, ...

This study investigated the signal characteristics of FBG sensors with various grating lengths using simulation method. We conducted quantitative analyses on the bandwidth reduction and reflectivity ...

Abstract: In this paper, we describe an interferometric optical fiber hydrophone using a pair of fiber Bragg gratings (FBGs) with a polarization-maintaining fiber (PMF).

FBG. 1. Introduction Fiber Bragg grating (FBG) written in polarization maintaining fiber (PMFBG) has been investigated for sensing applications such as fiber-b. sed sensors [1-6]. PMFBG can overcome ...

We study the effects of the reflected Bragg wavelength to the changes in shape of the optical fiber core waveguide and compare the results to the existing literature. The modified Transfer ...

In this study, a new simulation method is proposed and verified for fiber Bragg grating patterned on polarization maintaining fiber (PM-FBG) using the transfer matrix approach.

We propose a modified Transfer Matrix Method model to simulate a fiber Bragg grating (FBG) in a polarization maintaining optical fiber. We study the effects of the reflected Bragg wavelength to the ...

Abstract: Polarization mode coupling (PMC) and related effects from writing fiber Bragg gratings in polarization maintaining fiber (FBGs-in-PMF) are observed experimentally for the first time by optical ...

Abstract: Uniform Fiber Bragg Grating sensors based on Polarization-Maintaining fibers are designed for simultaneous longitudinal strain and temperature measurement of Carbon Fiber ...

A surface-attached polarization-maintaining fiber Bragg grating (PM-FBG) tandem sensor element for strain-decoupled temperature measurements: The sensor tandem consists of a splice of a Panda ...

Our technique exploits the reflection characteristics of fiber Bragg gratings written in polarization-maintaining fibers to create a frequency discriminator, which is able to convert PM/FM signals into ...

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