

Fiber optic sensors are compact because the detection circuit is located in the amplifier, allowing for detection even in narrow spaces. Installation and adjustment are easy and the devices have high ...

1. Introduction rs most used in communications and sensors (Mortimore, 1988). The device is formed w en the two output ports of a directional coupler are spliced. In this configuration, the two waves at the ...

A fiber optic temperature sensor consisting of two cascaded high birefringence fiber loop mirrors (Hi-Bi FLMS) was proposed and experimentally demonstrated to enhance the temperature ...

The reflection and transmission characteristics of a high-birefringence fiber loop mirror (HiBi-FLM), which is composed of a standard fiber coupler and one-section or multisection high-birefringence fibers ...

Abstract: This article presents a novel high-birefringence fiber-based torsion sensor based on a microstructured optical fiber with nine holes and seven cores microstructured holes and cores ...

We present a numerical and experimental demonstration of a high-sensitivity fiber optic transverse load and liquid level sensor based on bend-induced linear birefringence in a single-mode fiber.

Recent advances in devices and applications of high-birefringence fiber loop mirror sensors are addressed. In optical sensing, these devices may be used as strain and temperature sensors, in a ...

Abstract--We present an all-fiber sensor for simultaneous measurement of temperature and strain by inserting three sections of high birefringence fibers in a Sagnac interferometer.

The system incorporates high birefringence fiber to enhance the stability of the PMBFS, while the low birefringence single-mode fiber (SMF) resonator is optimized for temperature ...



High Birefringence Fiber Optic Sensor

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