

Preview

We review our works on Fabry-Perot (F-P) interferometric fiber-optic sensors with various applications. They have been widely applied in various fields, such as. Fiber sensors possess characteristics such as compact structure, simplicity, electromagnetic interference resistance, and reusability, making them widely applicable in various practical engineering applications. Based on different structures of.

We review fiber-based multimode interference (MMI) devices with a particular focus on optical fiber-based sensing

By employing thin film technology to form Fabry-Perot (FP) cavities on the end-face or inside the fiber, sensitivity to

Abstract: A temperature sensor based on fiber Fabry Perot interferometer (FPI) is proposed and demonstrated, which is composed of

A fiber-optic sensor is a sensor that uses optical fiber either as the sensing element ("intrinsic sensors"), or as a means of relaying

This work demonstrates a DFT-based real-time micro-interferometer fabricated directly on optical fibers, capable of

A high sensitivity fiber-optic acceleration sensor based on a Fabry-Perot Interferometer (FPI) formed by an aluminum

We review our works on Fabry-Perot (F-P) interferometric fiber-optic sensors with various applications. We give a general model of F

Abstract A simple fiber-optic sensor based on Fabry-Perot interference for small displacement measurement is

FiberPatrol FP1150 Fiber Optic Sensor Intrusion Detection System. Detect and locate perimeter intrusions up to 10 km. Fiber Optic

It is difficult for sapphire fiber Fabry-Perot (FP) sensors to generate high quality interference fringes because their highly multimode

Abstract A compact and simple double F-P interference optical fiber optic gas pressure sensor based on

suspended

The cavity is called optical fiber Fabry-Perot (F-P) cavity. When the light beam enters into cavity through sensing

Fiber-optic Fabry-Perot (FP) sensors, for their compact size, simple structure, high sensitivity, strong anti

A fiber-based Fabry-Perot (FP) optical sensor is well-suited for the rapid and selective detection of gas molecules,

Abstract A Twice-FFT demodulation method for signal distortion state is proposed and experimentally demonstrated

A fiber-optic Fabry-Perot pressure sensor based on a micro-electro-mechanical system (MEMS) and CO₂ laser fusion technology is

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