Dual FP fiber optic pressure sensor

In this paper, we further propose a MgO dual-FP-cavity optical fiber temperature and pressure sensor (MFPTP) for complex thermo-mechanical coupled environment applications. The ...

This paper presents a fiber-optic Fabry-Perot (FP) sensor with an all-silicon carbide (SiC) structure for pressure and temperature dual-mode sensing in harsh environments.

This study develops a novel optic fiber sensor with dual Fabry-Perot (FP) cavities to improve the efficiency of simultaneously measuring temperature and pressure. The sensor incorporates fiber ...

Opsens Solutions OPP series fiber optic pressure transducers are designed to provide accurate pressure measurement in the most adverse conditions. Its small size and EMI/RFI/MRI immunity ...

Due to its compact architecture, straightforward fabrication process, and high measurement precision, the proposed sensor holds strong potential for real-world applications ...

We have developed a highly sensitive fiber optic sensor that can measure temperature and pressure. The sensor comprises two Fabry-Perot interferometers (FPIs), FPI 1 and FPI 2, ...

A highly sensitive optical fiber air pressure sensor based on Fabry-Perot interferometer is proposed and demonstrated. The sensor is fabricated by flat-cut single-mode optical fiber, capillary glass...

A metal-sensitive diaphragm fiber optic pressure sensor with temperature compensation is developed for pressure monitoring in high-temperature environments, such as engine fuel systems, oil and gas ...

Here we review the basic principles of MEMS fiber-optic FP pressure sensors and then discuss the sensors based on different materials and their industrial applications.

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