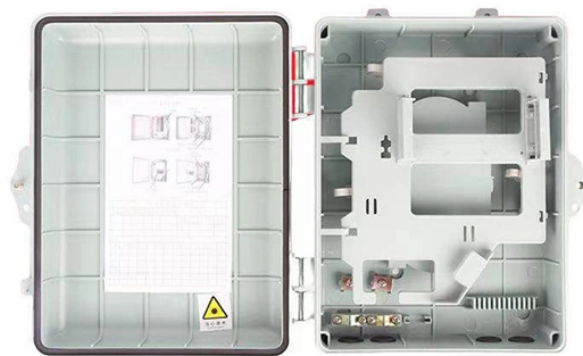


# Use of Fiber Optic FP Sensors



## Overview

This paper firstly reviews the history of fiber Fabry-Perot sensor, then introduces its recent progress and future development trends from the aspects of sensors, demodulation methods, hardware systems and applications based on the principle of fiber optical sensor. MIIT Key Laboratory of Aerospace Information Materials and Physics, State Key Laboratory of Mechanics and Control for Aerospace Structures, College of Physics, Nanjing University of Aeronautics and Astronautics, Nanjing 211106, China National Laboratory of Solid State Microstructures, College of. We review our works on Fabry-Perot (F-P) interferometric fiber-optic sensors with various applications. We give a general model of F-P interferometric optical fiber sensors including diffraction loss caused by the beam divergence and the Gouy phase shift. Based on different structures of an F-P. The history of FP sensors began at the turn of the nineteenth century with derivatives of the parallel-plate interferometer. Sensors for voltage and pressure measurement were described by Perot and Fabry. 11 October 2024; 3232 (1): 040034. 0236304 The use of fiber.

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Fiber-optic Fabry-Pérot (FP) sensor has the advantages of small structural size, high sensitivity, and immunity to electromagnetic interference, which has been widely used in acceleration detection.



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.



Fiber-optic sensing technology based on Fabry-Perot (FP) interferometry has attracted significant attention due to its advantages of small size and high-temperature resistance, which enable...



Potential applications of fiber optic sensor technology are broad. Based on the articles identified, Fiber optic sensor technology is classified into two categories: (1) applications in ...



A certain air gap of several hundred micrometers between the two flat fiber ends is used to form the FP cavity. The interferometric signal from the FFPI is amplified by the EDF and then detected by an ...



This paper presents a fiber optic sensor based on two parallel Fabry-Perot interferometers (FPis) and the Vernier effect, achieving temperature and pressure sensing.



Optical fiber Fabry-Perot (FP) interferometric pressure sensors have been attractive for a wide range of applications in biomedicine, healthcare, civil engineering, and automotive and...



A fiber-based Fabry-Perot (FP) optical sensor is well-suited for the rapid and selective detection of gas molecules, including volatile organic compounds (VOC), explosive analytes, etc.

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