Discrete Fiber Optic Sensing Fiber Optic Fabry-Perot

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 ...

In this manuscript, we proposes a fiber-optic Fabry-Perot interferometer (FFPI) sensor to monitor the pulse wave noninvasively. The arterial pulsations at the radial artery region of the wrist ...

The FFP-I consists of a lensless, plane Fabry-Perot Interferometer with a single-mode optical fiber waveguide between two highly reflective multilayer mirrors. The FFP-I is manufactured directly with ...

In this work, we proposed and demonstrated a miniaturized and highly sensitive fiber-optic FP sensor for mHz infrasound detection by exploiting a Cr-Ag-Au composite acoustic-optic transducer diaphragm ...

In this paper, a fiber-optic Fabry-Perot high-temperature pressure sensor for extreme high-temperature and high-pressure environments is proposed and manufactured, and a demodulation system is ...

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In this paper, a quadrature phase three-wavelength demodulation method for interrogating fiber-optic extrinsic Fabry-Perot interferometric sensors and dynamic signals is proposed.

Abstract: In this article, we proposed an approach of strain demodulation using a fiber-optic Fabry-Perot (FP) sensor based on Gramian angle field (GAF) algorithm and deep learning with sparse sampling ...

A fully automated fiber-optic acoustic sensing system is presented, enabling wideband acoustic measurements, automatic sensitivity adjustment, and long-term stable operation under varying ...

Fiber-optic Fabry-Perot (F-P) sensors are commonly demodulated using spectral interferometric techniques to measure the optical path difference (OPD). However, spurious jumps in ...

Fabry-Pérot sensors provide high-precision strain measurements based on interferometric cavity elongation. For harsh environments, IDIL offers ruggedized versions -- developed in collaboration ...

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