

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 ...

This paper provides a systematic introduction to the principle of FP cavity fiber optic sensors based on thin film technology and reviews the applications and development trends of this...

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 article explores the different types of Fiber Optic Sensors, their working principles, and various applications. We'll delve into Intrinsic, Extrinsic, and Hybrid fiber optic sensors, explaining how they ...

FP sensors are extrinsic OFS as the sensing element is not the fiber itself. The usual measurement technique is to reproduce a similar FP cavity inside the interrogation unit. The difference between the ...

Brief theory of sensing principle, fabrication method, applications, advantages and disadvantages of the different fiber-optic sensors, are addressed. ...

The key components of the optical Fabry-Perot sensor are the reflective mirrors, which construction is the research focus of sensing technology to realize multiple-parameter measurement and ...

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The authors deliver a complete overview of fiber-optic Fabry-Perot (FFP) sensing technology, integrating the knowledge and tools of multiple fields including optics, sensing, ...

Radiation absorption creates electronic excited states that are trapped by localized defects for extended periods of time. Heating the material enables the trapped states to interact with phonons and decay ...

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