

# **Fiber Optic Fabry-Perot Cavity Temperature Sensing**



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The fabrication, characterization and encapsulation of a fiber optic temperature sensor based upon a micro Fabry-Perot (F-P) cavity is presented. The F-P cavity is formed between a ...



In this paper, a cost-effective and miniaturized instrument is proposed, which is based on a tunable modulated grating Y-branch (MG-Y) laser for rapid temperature measurement using a ...



In this article, a novel ultrasensitive optical fiber temperature sensor is proposed and experimentally validated. Temperature sensing is achieved using a Fabry-Perot (F-P) cavity ...



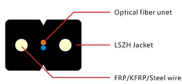
We report a high-resolution fiber optic temperature sensor system based on an air-filled Fabry-Pérot (FP) cavity, whose spectral fringes shift due to a precise pressure variation in the cavity. ...



This paper uses the F-P cavity peak phase spectral tracking algorithm for the vernier response spectrum collected by the vernier effect to obtain the peak spectral tracking and realise the high sensitivity ...



**Abstract** This study explores the development of an innovative Fabry-Perot Interferometer (FPI) designed for temperature sensing and environmental monitoring. The device is constructed by ...



**Abstract** This article proposes a novel ultra-sensitive fiber optic temperature sensor based on a compact cascaded Fabry-Perot interferometer (FPI) and Vernier effect (VE). Firstly, a ...



Using a MEMS-based fabrication process, a three-layer sensing chip with a composite cavity is formed, mitigating the temperature drift problem of conventional single-cavity structures ...

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