Fiber Optic Fabry-Perot Cavity Temperature Sensing

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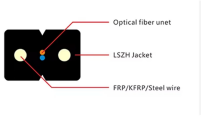
The fabrication, characterization and encapsulation of a fiber optic temperature sensor based upon a micro Fabry-Perot (F-P) cavity is presented. The F-P cavity is formed between a ...

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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Website: https://yoahorroenergia.es
Email: hello@yoahorroenergia.es
Phone: +233 54 318 7269
Address: Plot 28, Spintex Road, Accra, Greater Accra, Ghana

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