

In this paper, a Fabry-Pérot interferometer in-plane displacement sensor is proposed for measuring the displacement of MEMS devices utilizing a ...

The researchers see this as a step toward faster, more compact multimode-interference fiber sensors. They're still refining modal contributions, fiber design, and temperature response. The ...

This paper describes the optimal design of a miniature fiber-optic linear displacement sensor. It is characterized by its ability to measure displacements along a millimetric range with sub ...

This article reviews specifically the advanced fiber optic displacement sensing techniques that have been developed in the past two decades.

Scientists have demonstrated a new fiber-optic sensing method that detects strain and displacement by reading interference patterns directly in the electrical spectrum of a photodetected ...

Historically, fiber-optic sensors detecting environmental parameters like strain, temperature, and displacement have relied on monitoring changes in optical transmission spectra. ...

This paper presents a linear fiber optic displacement sensor for the use over a large range based on the macro-bending loss. The sensor incorporates an extremely simple design, light source ...

Here, we present a comprehensive analytical model for multi-axis tilt sensing based on intensity-modulated optical fiber sensors (OFDSs).

This paper describes the optimal design of a miniature fiber-optic linear displacement sensor. It is characterized by its ability to measure ...

In this paper, a Fabry-Pérot interferometer in-plane displacement sensor is proposed for measuring the displacement of MEMS devices utilizing a polished optical fiber and a modulated...

This paper introduces a novel design methodology for optical fiber bundles in OFDSs, simplifying the design process while customizing it to meet ...

This paper introduces a novel design methodology for optical fiber bundles in OFDSs, simplifying the design process while customizing it to meet the unique demands of varied applications.

Abstract. Introduced Fiber Optic Displacement measurement principle, Through setting the reference channel,

using of modulation and demodulation technology the system eliminates interference ...

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