ZTP Thermal & Power

Fiber Optic Temperature Composite Sensor

Fiber Optic Temperature Composite Sensor

High-precision optical fiber Fabry-Perot composite sensor for pressure

The experimental results showed that the optical fiber Fabry-Perot composite sensor had good response characteristics for pressure and temperature. It could maintain good linearity in the

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High-sensitivity fiber temperature sensor based on composite film

In this work, we proposed and demonstrated a high-sensitivity optical fiber temperature sensor based on lossy mode resonance (LMR). The sensor is composed of a D-shaped fiber and a

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A Large-range Optical Fiber Temperature Sensor Based on The

To solve the problem of limited temperature measurement range of traditional sensors, this paper proposes a new large-range fiber optic temperature sensor suita

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Fiber-optic sensors

When installation space is extremely limited or the objects to be detected are tiny, fiber-optic sensors are the ideal solution. If it is necessary for even higher

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Integrated all-fiber-optic sensor based on FPI and MZI composite

In this paper, a temperature and strain sensor based on fiber-optic Mach-Zehnder interferometer (MZI) cascaded with Fabry-Perot interferometer (FPI) is designed and fabricated.

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Fiber Bragg grating

A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and

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Flexible Composite Fluorescent Optical Fiber Sensor Embedded with

In addition, flexible composite fluorescent optical fiber temperature sensors have been fabricated, and the fiber with a double-cladding structure is employed to monitor human body temperature and

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High sensitivity fiber optic temperature sensor composed of two

We have conducted a detailed comparison of the sensor structure, sensing materials, manufacturing methods, temperature sensitivity, and other aspects of the existing HVE structure

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Overview of Fiber Optic Sensor Technologies for Strain/Temperature

Abstract: This paper provides an overview of the different types of fiber optic sensors (FOS) that can be used with composite materials and also their compatibility with and suitability for embedding inside a

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A high-sensitivity optical fiber temperature sensor with composite

In this paper, we propose an arc-shaped misaligned structure (ASMS) MZI sensor based on a single-mode fiber (SMF), and a layer of composite materials was coated onto the sensor to

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Comprehensive comparison of distributed and point fibre optic

Abstract Fibre optic sensors offer promising solutions for accurate and precise temperature monitoring across diverse application areas.

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Overview of Fiber Optic Sensor Technologies for

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Ultra-Wide Detection Range of Fiber Optic Temperature

This paper proposed a fiber optic temperature sensor with an ultra-wide detection range based on the polydimethylsiloxane (PDMS) film-coated

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A Cylindrical High-Temperature-Resistant Fiber-Optic Composite

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Fiber optic high temperature sensor based on ZnO composite

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