

In this paper, a photoelectric conditioning circuit for fiber Bragg grating demodulation is designed. The experimental results show that this method can accurately demodulate fiber Bragg ...

A three-points tracking-based high-speed fiber Bragg grating (FBG) demodulation method based on wavelength-tunable laser is proposed. The wavelength-tunable laser scans just three ...

Overall, despite a lot of past effort, there is still a need for a simple and robust FM/PM demodulation scheme that can achieve linear, wideband, and background-free operation. Here, we present a novel ...

A demodulation algorithm is vital for a fiber Bragg grating (FBG) sensing system. In this paper, a novel demodulation algorithm based on the variable-step-size method and cross-correlation algorithm is ...

Fiber Bragg gratings (FBGs) are ubiquitous as sensors for a range of parameters and also as optical components in telecommunications systems. However, their temperature dependence ...

He worked there as an electronic engineer between 2012 and 2016, mainly developing projects concerning optical sensors and fiber Bragg grating devices. He currently works as an Intellectual ...

Here, we present a simple, compact, and robust technique featuring high linearity over a wide bandwidth and low background noise.

Fiber Bragg gratings are reflective structures in the core of an optical fiber with a periodic or aperiodic perturbation of the effective refractive index.

This paper presents a new method of demodulating the spectrum of fiber Bragg grating (FBG) based sensors by employing deep convolutional neural networks (DCNN).

Fiber Bragg grating (FBG) sensors have emerged as advanced tools for monitoring a wide range of physical parameters in various fields, including ...

This article presents a new demodulation method from the reflection specklegrams of fiber Bragg grating (FBG)-based sensors by employing convolutional neural ne

The demodulation algorithm based on 3 × 3 coupler in a fiber-optic hydrophone array has gained extensive attention in recent years. The traditional method uses a circulator to construct the normal ...



# Fiber Bragg Grating Modulator Demodulator

Bragg gratings are reflecting structures with a periodic refractive index modulation. They are contained in dielectric mirrors and in some fiber devices.

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