Tonga-Kun-Lian fiber grating demodulation

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 ...

To solve the problem of tunable semiconductor lasers in a multichannel Fiber Bragg Grating (FBG) real-time demodulation system, where the milliwatt output power limits channel ...

Abstract: A high-performance, low-cost demodulation system is essential for fiber-optic sensor-based measurement applications. This paper presents a demodulation system for FBG sensors based on a ...

To achieve synchronous demodulation of a large-capacity Fiber Bragg Grating (FBG) sensor network, a FBG demodulation system based on modulated grating Y-branch (MG-Y) tunable laser is designed, ...

The invention relates to the field of sensing technology, and discloses a fiber grating demodulation system. When the invention is used, the narrowband laser is thermally tuned, and its...

Aiming at a structural stress monitoring system, it is proposed that using the principle of fiber grating sensing to measure structural stress.A F-P tunable filter fiber grating demodulation system based on ...

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 ...

Article "Design of Fiber Grating Demodulation System Based on Tunable F-P Filter" Detailed information of the J-GLOBAL is an information service managed by the Japan Science and Technology Agency ...

Abstract: As a new fiber structure with multiple degrees of freedom in both the parameter design and coupling selectivity, chiral long-period fiber grating (C-LPFG) becomes a promising optical fiber sensor.

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