

Nxz Fiber Bragg Grating Demodulator



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The proposed method expands the types of FBG sensors that can be demodulated, overcoming the limitation of the conventional AWG-based method on the demodulation range. This ...



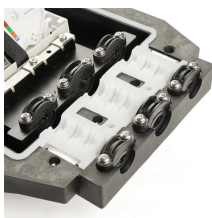
A high speed quasi-distributed demodulation method based on the microwave photonics and the chromatic dispersion effect is designed and implemented for weak fiber Bragg gratings (FBGs).



A novel demodulation method for the sensing system based on an identical weak fiber Bragg grating (IWFBG) array is proposed in this paper.



identical Bragg gratings and their Bragg wavelengths must be exactly the same. Writing such gratings is more difficult and expensive than writing a single grating. We increase the scanning wavelength step ...



The ZZ-FBG series fiber optic grating demodulator is a high-precision and high-resolution device developed by our company. It can provide a stable scanning light source for fiber optic grating sensor ...



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 ...



In this article, a tracking-based high-speed demodulation method for FBG sensing systems based on the wavelength-tunable laser is proposed. The wavelength-tunable laser only ...



A novel approach to fibre Bragg grating spectra processing is proposed. The method is based on the use of nonlinear filtration and raising the ...



Fiber Bragg grating (FBG) sensors are one of the most exciting developments in the fields of fiber-optic sensors in recent years.



The fiber Bragg grating demodulator based on spectral imaging method has a small volume, high integration degree, and can be used to measure static and dynamic strains. It has outstanding ...



This work presents a practical and high-precision wavelength demodulation method for 850 nm FBG sensing based on an imaging Charge-Coupled Device (CCD) spectrometer.



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

Contact Us

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