

Fiber Bragg grating is used for monitoring various parameters. In this paper, a set of demodulation system is built based on the principle of edge filter. The system can realize static and ...

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

Aiming at dynamic torque measurement system, fiber Bragg grating sensing principle is used to measure rotating shaft torque, and a fiber Bragg grating demodulation system based on ...

This is a Fiber Bragg Grating demodulator by scanning spectrum. It uses a scanning narrow-band semiconductor laser as light source to perform high-resolution fiber grating demodulation in the range ...

The vibration measurement of spacecraft structures in space applications has raised higher requirements for the demodulation frequency of the fiber Bragg grating (FBG) demodulator. In ...

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

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

The ultra high speed fiber Bragg grating demodulator is a fiber Bragg grating network analyzer mainly developed by FJINN. The fiber Bragg grating static demodulator is produced based ...

Fiber X300/X500 series is a Fiber Bragg Grating demodulator by scanning spectrum. It uses a scanning narrow-band semiconductor laser as light source to perform high-resolution fiber grating ...

Keywords: fiber Bragg grating, demodulation algorithm, variable step size, correlation coefficient A demodulation algorithm is vital for a fiber Bragg grating (FBG) sensing system. In this paper, a novel ...

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 system uses a Fiber Etalon to address the nonlinear errors between the MEMS mirror's driving voltage and output wavelength, affecting the demodulation accuracy, while employing ...

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

nonlinear filtration and raising the spectrum value to the second power. A ...

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