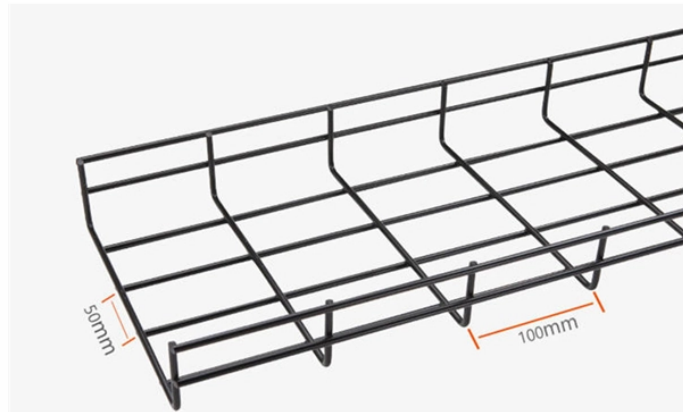


Fiber Bragg grating array demodulator



Fiber Bragg grating array demodulator



This study presents an automated paradigm for assembling high-density fiber Bragg sensor arrays on complex surfaces. The framework ensures signal fidelity and structural integrity, enabling ...



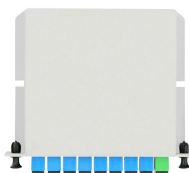
Fibre Bragg gratings are one of the most popular sensors with a huge number of applications. Their most important advantage is signal modulation consisting in shifting the spectrum ...



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 ...



This paper presents an innovative and efficient shape-sensing approach for optical fiber Bragg grating (FBG) arrays, employing the dual-comb spectroscopy (DCS) technique for demodulation.



Most optical sensors on the market are optical fiber Bragg grating (FBG) sensors with low reflectivity (typically 7-40%) and low side-lobe suppression (SLS) ratio (typically SLS <15 dB), which prevents ...



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



Most optical sensors on the market are optical fiber Bragg grating (FBG) sensors with low reflectivity (typically 7-40%) and low side-lobe suppression (SLS) ratio ...



To provide a solution, we report a pretreatment method for hydrophone array based on 3×3 coupler demodulation.



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 ...



We propose a two-stage methodology to discern distinct wavelengths within highly overlapped FBG sensors. The method leverages a deep learning (DL) model in the initial stage to ...



We propose a novel demodulation method of strong FBG sensor array based on wavelength-to-time mapping and multiloop OEO. The oscillating frequency shift caused by the time shift encodes ...

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