

Dual-wavelength fiber optic sensing



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In this paper, we propose a fiber-based two-wavelength heterodyne interferometer as a compact and highly sensitive displacement sensor that can be used in inertial sensing applications.



In this paper, an in-line Mach-Zehnder interferometer embedded in a fiber Bragg grating (FBG) is fabricated by a tiny offset-core splicing technique and inserted into a fiber ring laser to effectively ...



This work presents a compact hybrid fiber-optic sensor that integrates the packaged ring-shape MFI with the TFBG to realize wavelength-intensity dual demodulation for simultaneous pressure and ...



We report a dual-wavelength fiber laser sensor based on a uniform fiber Bragg grating (UFBG) and a Polyvinyl alcohol (PVA) film-coated long-period grating (LPG) as sensor probe for ...



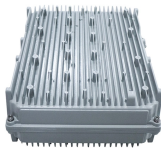
With this new fabrication technique, it is possible to design optical fiber reflectors, with a tailored wavelength response, to achieve a flat and stable wavelength emission.



This work presents a dual-wavelength C-band erbium-doped fiber laser assisted by an artificial backscatter reflector. This fiber-based reflector, inscribed by femtosecond laser direct writing, was ...



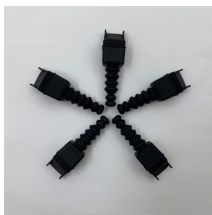
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Imagine a world where the Internet doesn't just connect but senses—detecting earthquakes, monitoring battery health, or safeguarding critical infrastructure. This is the power of ...



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This study aims to propose an efficient design for a distributed polymer optical fiber system. This system combines traditional intensity-based measurement with wavelength-based ...



This study proposes the development of a dual-wavelength optical fiber sensor (DWOFS) that integrates two optical fiber structures in a multimode transmission line to measure the ...



Here, we demonstrate simultaneous frequency locking of two wavelengths of the multi-channel hybrid-integrated laser source to the resonance frequencies of a high Q-factor SiN ...

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