

The proposed fiber optic dual-axis FP accelerometer has high sensitivity and strong immunity to electromagnetic interference. The size of the sensor mainly depends on the size of the prism, which ...

Luna Innovations" high-speed multipoint fiber optic sensing technology includes a solution for very sensitive acceleration and vibration measurements.

In this work, we report on a highly sensitive all-fiber optical accelerometer suitable for sensing vibrations of extremely low frequencies (down to 1 MHz) and low amplitudes.

We propose and demonstrate a novel method for improving the sensitivity of fiber-optic interferometric accelerometers based on multi-core fiber space division multiplexing technology.

Specifically tuned to address challenging environments, the os7500 family of sensors provides the user the ability to accurately measure vibrations with frequency ranges up to 350 Hz and with the highest ...

Three accelerometers with varying sensing fiber lengths were fabricated and tested. Experimental results demonstrate that the increase of the sensing fiber length can improve the ...

This study proposes an innovative approach for sensitivity enhancement in fiber-optic diaphragm accelerometers (FODAs) via geometrically optimized multiturn fiber coils (MTFCs).

A highly sensitive fiber-optic accelerometer based on detecting the power output of resonances from the core dip is demonstrated.

The distribution characteristics of axial and radial strain in the sensing fiber are analyzed by the finite-element method, and the influence of strain distribution on the sensitivity of ...

Redondo Optics" family of ultra-high sensitivity miniature, lightweight, and small foot-print distributed multi-point, single axis and multi-axial, fiber optic accelerometers, based on ROI's unique transmission and ...

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