

Supports simultaneous positioning and monitoring of multiple vibration points with high positioning accuracy of ± 5 m, frequency response range from 10 Hz to 5 kHz, and alarm response ...

We experimentally demonstrated multi-vibration positioning over 202.3 km single-span sensing distance, with a positioning accuracy as small as 17.9 m for sinewave vibrations, and a spatial...

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Using the cable as a vibration sensing medium, we design experiments to collect real-world vibration threat events.

Based on this, a distributed optical fiber vibration sensing and positioning scheme by combining distributed polarization state detection with cross-correlation analysis is further proposed.

This paper makes the analysis of fiber optic cable tracking and positioning analysis based on distributed fiber vibration sensing.

Unlike traditional point-type vibration sensors, DVS realizes continuous, real-time vibration monitoring and positioning along the entire length of the fiber, covering distances up to 60km per channel.

The invention relates to the technical fields of optical communication testing and optical fiber sensing, in particular to a device and a method for positioning optical cable vibration.

To validate the effectiveness of the proposed positioning scheme, experiments were conducted to localize vibration events along a 101-km sensing fiber cable using an annular ...

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