Customized Positioning Vibration Optical Cable

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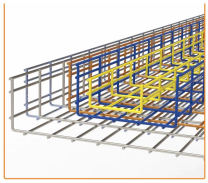

This paper makes the analysis of fiber optic cable tracking and positioning analysis based on distributed fiber vibration sensing.

To solve this problem, we propose a strain and vibration event positioning system by employing correlated positioning techniques, pulse coding techniques, a broadband light source, and ...

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.

However, precisely locating vibrations along a long-haul fiber cable remains a significant challenge in these applications. To address this challenge, this article presents and validates an ...

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	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 ...
	Distributed Acoustic Sensing (DAS) systems detect strain changes and vibrations along optical fibers. This highly sensitive technology is used for monitoring critical infrastructure such as power cables, ...
	Using the cable as a vibration sensing medium, we design experiments to collect real-world vibration threat events.
	In order to achieve the above purpose, the present invention provides the following technical solutions: a fiber optic cable vibration positioning device, comprising:
	By combining the DAS system with the existing optical cable, it would be possible to monitor all incidents that stimulate vibration around the cable from dozens to hundreds of meters, which...

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