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This is a capability unique to fiber-optic sensors and one that cannot be easily achieved using conventional electrical sensing techniques. Table 1 compares the various optical sensing ...

Brief theory of sensing principle, fabrication method, applications, advantages and disadvantages of the different fiber-optic sensors, are addressed. Recent progress in numerous ...

This paper conducts a systematic analysis of the sensing mechanisms in fiber-optic pressure sensors, with a particular focus on the performance optimization effects of fiber structures and materials, while ...

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This paper reviews the fiber optic sensors that have been developed and applied to measure cable forces, including fiber Bragg grating, interferometer, and fully distributed sensors.

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Aiming at the problem that the accuracy of a fiber optic current sensor is susceptible to external disturbances and temperature fluctuations, we present ...

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Fiber serves as a continuous sensing element. Sensing is based on.  $\{ 1 + \ln( / ) z + \ln( / ) \}$  Equipped with safety features and remote fault monitoring.

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In this section we will briefly discuss the ways in which optical fiber Bragg grating sensors can be individually interrogated and collectively multiplexed in order to be able to perform multi-point sensing.

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