

FBG strain sensor fabrication processes can lead to nonlinear behavior that affects the accuracy of measurements. We present a calibration technique for FBG sensors.

The precise calibration of the optical fiber strain sensor has great practical value in prolonging the survival rate of the sensor, improving the measurement accuracy, and meeting the ...

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In this paper, accuracy calibration experiments and the related analyses of two fiber-optic sensing technologies, the fiber-optic grating (FBG) and ...

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We present a twist compensated, high accuracy and dynamic fiber optic shape sensing based on phase demodulation in Optical Frequency Domain Reflectometry (OFDR) by using multiple ...

From energy and transportation to agriculture and cybersecurity, fiber sensing is quietly revolutionizing industries with applications once thought impossible. In this article, the authors ...

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