

We detailed a study of techniques and sealing materials for optical fiber sensors used in dynamic environments with high pressures (300 bar) and high temperatures ( $>300\text{ }^\circ\text{C}$ ).

Additional optical fibers have been produced, including plastic optical fibers, glass optical fibers with plastic claddings, photonic crystal (holey) optical fibers, doped active optical fibers, and others.

Learn the basics of calibrating fiber optic sensors for strain measurement using different methods and tools in this article.

What is a Fiber Optic Sensor? A sensor that uses optical fiber as a detecting element is known as a fiber optic sensor. In remote sensing, fibers play a key role but based on the ...

In this paper, a wavelength tracking method is proposed to stabilize the performance of high sensitivity optical fiber AE sensing system.

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.

In this report, we demonstrate a new scheme based on an FBG sensor fabricated in a polarization-maintaining fiber.

Radiation absorption creates electronic excited states that are trapped by localized defects for extended periods of time. Heating the material enables the trapped states to interact with phonons and decay ...

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Accurate deformation measurement is essential in modern engineering because structural reliability depends on precise conversion of mechanical strain into optical signals. Its performance is ...

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