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Packaging methods for fiber optic FP sensors

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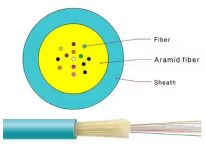
This paper presents an adhesive-free packaging method for fabricating fiber-optic MEMS sensors with high measurement stability using laser welding. After the ag.

We detailed in this work a study of techniques and sealing materials for optical fiber sensors used in dynamic environments with high pressure (>300 bar) and high temperature (>300 ...

This article investigates using optical fibers with enhanced backscattering profiles to improve distributed fiber sensor performance and reduce instrumentation costs.

In this work, we focus our efforts on investigating various types of packaging schemes for their compatibility and integrability on the surfaces of metallic structures such as oil and gas pipelines ...



This paper presents a hermetic fiber sensor packaging technique using glass sealants through pressure boundaries for harsh environment applications. The embedded fiber sensors are leak-proof at 1MPa ...

	This work reports on the design of an optical fiber-pressure sensor system based on low-coherence interferometry that uses a metal-embedded optical fiber to provide a robust sensor package.
	The paper demonstrates an effective technique to deploy fiber sensors to perform multi-parameter measurements in a wide range of energy systems that utilize high temperatures and ...
	The 3D-printing of fiber optic sensor packaging is explored. The investigation includes the evaluation of the stress-strain behavior of different filaments, the silane based bonding agent as well as the sensor ...
	Considering strain transfer efficiency and protection of the sensing and non-sensing region (optical cable) of the fibre, different sensor packaging and protection techniques are reported ...

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