GDR Telecom Site Energy Systems

Fiber Bragg Grating Thermometry at Jamaica Polytechnic

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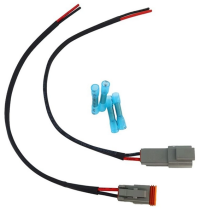
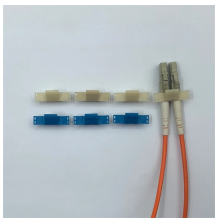
Abstract: In recent years there has been considerable interest in developing photonic temperature sensors such as the Fiber Bragg gratings (FBG) as an alternative to resistance thermometry. In this ...

Experimental: Fiber Bragg Gratings: In this study we have utilized commercially available polyimide coated silica fiber based FBG with Bragg resonance set at 1540 nm, 1550 nm (3 fibers), and 1560 nm.

Because of its various advantages over its counterparts, fiber Bragg grating (FBG) is a potential device for cryogenic temperature monitoring. This article reviews the advances in cryogenic ...

This paper shows the feasibility of using fiber optic sensors to measure flow in pipelines. The technique consists of measuring the temperature variation on the external surface of a pipeline, with...

Optical fibers embedding arrays of fiber Bragg grating (FBG) sensors, characterized by 0.1 °C accuracy and 1.2 mm spatial resolution, were employed for thermometry during the procedures.

	In this paper, our objective is to review the various techniques to measure the temperature and strain using FBGs in different industrial sectors. An In-depth analysis of FBG is also incorporated ...
	A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and transmits all others.
	Flow characteristic properties in pipelines are determined from the temperature evolution, measured by fiber Bragg gratings, after transit of a thermal slug. Results analyze both ...

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