

Coupled with the new advances in functional nanomaterials as well as fiber structure design and fabrication in recent years, new solutions continue to emerge to further improve the fiber-optic ...

We present development of a compact and label-free sensor based on the surface modification of copper vapor laser fabricated long period fiber gratings for detection of airborne *Aspergillus niger* (A. ...

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The proposed intervention consists of completing the missing links in Niger and Chad of the trans-Saharan ridge. The project intends to establish pilot data centres, eGovernment platforms and ...

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

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

The next sections describe in detail the different fiber optic sensors which are classified according to the physical/chemical phenomena integrated with the fiber-optic for developing the ...

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.

Numerous researches have been conducted in past decades using fiber optic sensors with different techniques. Intensity, phase, and wavelength based fiber optic sensors are the most widely used ...

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