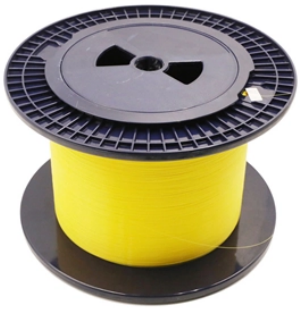
Optics & Photonics

GDR Telecom Site Energy Systems

Concentration Measurement Experiment Using Fiber Optic Sensor



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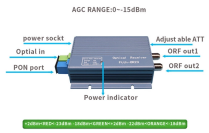


Previously, various techniques have been employed to measure NaCl concentrations but high cost and complex fabrication become one of the limitations that need to be overcome. Thus, this paper ...

In this paper, a liquid concentration measurement based on the optoacoustic effect and fiber Bragg grating (FBG) sensor technology has been implemented. The theory and experimental ...

We present liquid concentration measurements based on light losses in fiber optic curvatures. Lateral polishing of the transition region of its u-shaped curved fiber increases sensor sensitivity.

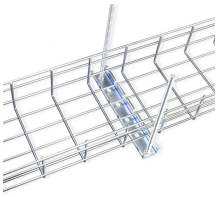
A liquid concentration measurement system with end-reflection optic fiber SPR sensor was set up. Then the comparison experiment between darkroom environment and natural light ...

D.Sengupta et al. demonstrated the measurement of solution concentration by using plastic optical fiber (POF). The experimental set up was consists of LED as the source, two POF''s as probes and ...

To achieve a compact and robust structure, a reflective optical fiber surface plasmon resonance (SPR) sensor is proposed for the simultaneous measurement of glucose concentration and temperature.

This paper reports the use of fiber optic sensor consists of two-fiber probe and reflector for the measurement of concentration and refractive index of liquids based on the reflective...

We demonstrate fiber optic sensors with temperature compensation for the accurate measurement of ethanol concentration in aqueous solutions.



Abstract: In this paper, an optical fiber sensor is reported to be capable of measuring the concentration of the solution.

Contact Us

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