

Fiber optic sensor for measuring solution concentration

Length:19.3mm
Small-end inner diameter:3.0mm
Large-end inner diameter:3.5mm
Outer diameter:5.5mm





Fiber optic sensor for measuring solution concentration

A Fiber Optic Sensor for Measurements of Solute Concentration in Fluids

A new and simple calibration technique that greatly enhances the measurement sensitivity of conventional fiber-optic reflectometry based on Fresnel reflection from the tip of a fiber is used for

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Intelligent Fiber Optic Sensor for Estimating the Concentration of a

The sensor consists of a light source, asymmetrical fiber coupler, an optic head, a mini lift and a computer-aided measuring system with a detection block, Figure 1.

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Reflective Optical Fiber SPR Sensor for Simultaneous Measurement

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

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A Fiber Optic Sensor for Measurements of Solute Concentration in Fluids

A new and simple calibration technique that greatly enhances the measurement sensitivity of conventional fiber-optic reflectometry based on Fresnel reflection from the tip of a fiber is used for

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Temperature-Compensated Solution Concentration Measurements



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

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ARSRV36_N1_P1_7

This review briefly presents the recent research and developments of optical fiber sensor technology with the focus on various methods in liquid concentration and refractive index measurement.

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A Fiber-Optic Sensor Using an Aqueous Solution of Sodium Chloride

A fiber-optic sensor system using a multiplexed array of sensing probes based on an aqueous solution of sodium chloride (NaCl solution) and an optical time-domain reflectometer (OTDR) for

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Fiber optic SPR sensor for liquid concentration measurement

A liquid concentration measurement system with end-reflection optic fiber SPR sensor was set up in this paper. Especially, a chemical method based on silver mirror reaction is proposed to

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A novel compact fiber optic concentration sensing system based on

This paper proposed a novel compact fiber-optic Michelson interferometer for measuring solution concentration, which was realized by multiple arc discharge performed on the end of a

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Intelligent Fiber Optic Sensor for Estimating the



In contrast to well-known fiber optical intelligent sensors which use information of various optical wavelengths, , the proposed construction uses

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Sugar Detection in Aqueous Solution Using an SMS Fiber Device

In this paper, we present the fabrication and testing of an SMS sensor suitable for the measurement of the sugar content in aqueous solutions. The sensor presented has the potential to

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Fiber-optical sensor for measuring concentration of solution

This sensor featuring plane-convex lens collimator for expanding beam and coupling, and a low frequency for light pulse modulation is introduced. The theoretical formulas of concentration of

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Intelligent Fiber Optic Sensor for Estimating the Concentration of a

This paper presents the construction and working principles of an intelligent fiber-optic intensity sensor used for examining the concentration of a mixture in conjunction with water. It can

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Temperature-compensated no-core fiber sensor based on surface

We introduce a compact dual-channel surface plasmon resonance (SPR) fiber optic sensor capable of concurrently measuring ambient temperature and glucose concentrations. The

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Fresnel-reflection-based fiber sensor for on-line measurement of

A fiber-optic sensor based on a two-channel Fresnel reflection technique for the measurement of solute concentrations is proposed in this paper. The relationships between

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A fiber-optic sensor using an aqueous solution of sodium

Recently, optical fiber tip sensor has been utilized for measuring sucrose and ethanol level , glycerol , benzene, methanol, acetone

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Advanced hydrogel optical fiber sensors with triple-readout for real

Herein, we have developed hydrogel-based optical fiber (OF) sensors for continuous and real-time pH sensing using a hydrogel matrix with the pH-sensitive dye Neutral Red to



obtain a color

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Glucose Concentration Measurement by Fiber Optic

This fiber optic sensor, based on a homogeneous fluorescence energy-transfer immunoassay, operates in a continuous, reversible manner to

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Sugar concentration detection by using fiber optic displacement sensor

Five different concentrations of glucose solution were prepared for this study. The sensor's performance is evaluated by measuring the output voltage in a glucose solution. The

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THE DESIGN OF FIBER OPTIC SENSOR FOR THE

In this paper, we present a fiber optic intensity modulated sensor designed for solution concentration measurement. Our work focuses on optimizing the experimental setup by adjusting the fiber

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Temperature-Compensated Solution Concentration Measurements

We demonstrate fiber optic sensors with temperature compensation for the accurate measurement of ethanol concentration in aqueous solutions. The device consists of two photonic

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CS-100F1 Series Fiber Optic Type Chemical Solution



An inline, real-time optical fiber-based chemical concentration monitor that enables measurements of chemicals used in semiconductor manufacturing processes

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Fiber-optical sensor for measuring concentration of solution

It can be used to perform the measurement or control of concentration of solution on-line in succession.

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