

Fiber Optic Sensor Solution Concentration



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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 ...



An inline, real-time optical fiber-based chemical concentration monitor that enables measurements of chemicals used in semiconductor manufacturing processes such as cleaning and etching.



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



In this paper, a hybrid optical fiber structure for solution concentration measurement with the temperature compensation is proposed. The structure consists of long period fiber grating (LPFG) ...



A fiber-optic solution concentration sensor based on a pressure-induced long-period grating (LPG) in a composite optical waveguide is proposed. The composite waveguide consists of a ...



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



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.



This paper presents the working principles of intelligent fiber-optic intensity sensor used for solution concentration examination. The sensor head is the ending of the large core polymer ...



In this paper, we report a comparative study of fiber optic sensors for the application of aqueous solutions concentration monitoring. A simple, economical, and efficient set-up for...

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