

These features render fiber-optic sensors more suitable for liquid level monitoring in challenging environments. Numerous fiber-optic level sensors based on various operational principles have been ...

To achieve accurate, continuous, and online monitoring of liquid levels over a wide range, we investigate a liquid level sensor based on reflective optical fiber.

In this study, we propose a distributed fiber optic liquid level sensing system that overcomes these limitations by utilizing Optical Frequency Domain Reflectometry (OFDR).

Due to its better sensing performances, with the ease of fabrication processes, the proposed sensing technology opens new avenues to develop high-performance fiber optic-level sensors with the scope ...

Abstract: Liquid level sensor with large sensing range and high-resolution is essential for the application of industry monitoring. In this work, a distributed optical fiber liquid level sensor is proposed and ...

In this work, we theoretically proposed and experimentally demonstrated the integration of a Mach-Zehnder interferometer (MZI) based on cascaded peanut-shaped fiber structures with a ...

Abstract: In this paper, a novel liquid level sensing system is proposed to enhance the capacity of the sensing system, as well as reduce the cost and increase the sensing accuracy. The proposed ...



Asian Fiber Optic Liquid Level Sensor

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