Target-type fiber Bragg grating flow sensor

A novel fiber Bragg grating (FBG) flow sensor with high sensitivity is proposed in this article, which consists of a target disk, a solid beam, an L-shaped lever structure, and dual FBG. The dual-FBG ...

Based on a lever-hinge structure, a target-type fiber Bragg grating (FBG) flow sensor is proposed. Differential measurements of temperature and pressure are achieved using two FBGs.

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In view of problems existing in the detection of the traditional hydraulic system, a new one-piece target type flow sensor is designed and researched based on fiber Bragg grating...

Aiming at the problems existing in traditional hydraulic system detection, such as low measuring accuracy, large size and complex structure, a kind of integrated target flow sensor based ...

In this paper, a novel target type fiber-optic flow sensor is proposed based on the fiber Bragg grating technology. It exploits the advantages of fiber Bragg grating sensors as well as those ...

Fiber Bragg grating (FBG) sensors have emerged as advanced tools for monitoring a wide range of physical parameters in various fields, including structural health, aerospace, biochemical, ...

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We review the recent developments in the area of optical fiber grating sensors, including quasi-distributed strain sensing using Bragg gratings, systems based on chirped gratings, intragrating...

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