

Leveraging the coexisting emission and detection capabilities of QWDs, we have constructed a sensing system in this article. This system utilizes a QWD, which is stimulated to emit ...

Traditional six-axis force sensors are mostly based on resistance strain, piezoelectricity and capacitors, which have poor resistance to electromagnetic interference. In this paper, a six-axis force ...

Here, we demonstrate for the first time the microprinting of a novel fiber-tip-polymer clamped-beam probe micro-force sensor for the examination of biological samples.

One such breakthrough is the development of fiber-optic force sensors, which offer a host of advantages over traditional sensing methods. In this article, we will explore the underlying ...

This study presents a compact sensor for simultaneous force measurement and depth profiling. We have developed a fiber-optic sensor structure capable of integrating common-path ...

This study successfully demonstrated a polymer optical fiber-based force sensor with tunable measurement capabilities. The sensor was fabricated by precisely etching a 40 mm section ...

In this article, we introduce a new concept for an in-line optical fiber force sensor probe, which is based on two cascaded Fabry-Perot (F-P) cavities to generate the Vernier effect and ...

In this paper, a fiber optic force sensing technology based on the intensity distribution change of orbital angular momentum (OAM) mode is proposed and realized.

Equipped with safety features and remote fault monitoring.

The Fiber Optic Sensing Association (FOSA) is dedicated to accelerating the use of distributed and quasi-distributed optical fiber sensing technologies. Fiber optic sensing works by measuring changes ...

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