

Fiber optic sensor for measuring wind speed

We utilized a controlled wind-tunnel setup to assess both the accuracy and the precision of AHFO under a range of operational conditions. The technique allows for wind speed ...

The errors in the wind-speed and wind-angle measurements are experimentally demonstrated to be less than 1%. The proposed fiber anemometer with a simple and durable ...

Born out of the aerospace industry, WindSceptor has established itself as a world leader in developing customized all-fiber optic motion-compensated solutions that meet platform-based sensors' reliability, ...

This study designed and experimentally verified a simple and low-cost anemometer based on Fresnel reflection using Polymer Optical Fiber (POF). The system was developed especially for ...

In this paper, we proposed a novel anemometer for simultaneously and conveniently monitoring wind speed and wind direction by using a pair of ...

In this paper, a wind speed measurement structure is designed. Optical fiber sensor is used to transmit the sensing signal. In this way, the remote transmission and monitoring of wind speed can be ...

Aspects of the present disclosure describe distributed fiber optic sensing (DFOS) systems, methods, and structures that advantageously measure wind speed at utility poles that support...

In this paper, we proposed a novel anemometer for simultaneously and conveniently monitoring wind speed and wind direction by using a pair of fiber Bragg gratings (FBGs).

Abstract: We experimentally demonstrated a real-time wind speed monitoring method by utilizing fiber-optic sensors to acquire and display the value on the computer.

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