GDR Telecom Site Energy Systems

Fiber Optic Ring Cavity Sensor

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A novel active fiber cavity ringdown (FCRD) gas sensing system using autocorrelation denoising technology was proposed for the first time. Using this scheme, external parameters can be ...

A novel active fiber cavity ringdown (FCRD) technique using frequency-shifted interferometry (FSI) is proposed for the first time.

A fiber ring cavity laser temperature sensor is presented and demonstrated. The sensor probe consists of a fiber Bragg grating (FBG) and a heterostructure based on polymer-coated no-core fiber (NCF), ...

Here, we will give a review of mechanical sensors that are based on fiber-cavities and interrogated with spectro-scopic methods, in contrast to the most conventional inter-ferometric and spectrally ...

In this study, an interrogation system based on an erbium-doped fiber ring cavity for refractive index measurements is presented and experimentally demonstrated.

In this work, a simple fibre linear CRD design is proposed. The new configuration consists in a linear cavity using a single fibre coupler and two thin-films mirrors located at the end of the fibre arms.

Herein, we present the design and development of a ring cavity-based MR-compatible fibre optic sensor for medical applications. The paper reports initial investigations on sensor design parameters and ...

A fiber Bragg grating temperature sensor based on the cavity ring-down technique is reported. A quasi-linear fiber cavity is proposed to reduce optical loss in the cavity instead of a ...

A novel active fiber cavity ringdown (FCRD) technique using frequency-shifted interferometry (FSI) is proposed for the first time. Using this scheme, external parameters can be monitored in the space ...

Compared to traditional fiber optic vibration sensors, ring laser vibration sensors based on erbium-ytterbium co-doped fibers show great potential for the sensors in the field of precision ...

In this paper, we propose and experimentally demonstrate a temperature sensor using a novel Fabryâ€“Perot (Fâ€“P) interferometer (NFPI) air cavity in a fiber ring laser, whose 3 dB ...

Contact Us

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