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A polarization closed-loop fiber optic current sensor is presented. In this sensor, a Bi-substituted iron-garnet tunable Faraday rotator (TFR) is inserted into the optical path to place and ...



This present inversion provides a digital closed-loop fiber optical current sensor.



This paper introduces a resonant fiber optic current sensor utilizing a broadband source and linear cavity. The theoretical analysis and experimental validation are carried out, and the ...



In the following a highly accurate fiber-optic current sensor (FOCS) is presented for rated currents up to 500 kA. The sensor overcomes the drawbacks of the classical transducers and offers superior ...



In this paper, we propose a modulation - demodulation method based on dual closed-loop feedback to measure the occurrence of sudden vibrations without affecting current measurement.



This paper shows a new way for measuring temperature in interferometric fiber-optic gyroscopes based on the temperature dependence of the integrated optical circuit.



Interferometric fiber optic current sensors (FOCS) employ circularly polarized light traversing a closed loop path around an electrical conductor's current-generated magnetic flux, which reflects off a mirror.



The FOCS system utilizes the Faraday effect to measure current. A simple loop of optical fiber is wound around the busbar in place of the complicated and bulky sensor head of conventional transducers.



Abstract: To address the limited dynamic range and poor linearity of the resonant fiber optic current sensor (R-FOCS) caused by its open-loop configuration, this paper proposes and ...



Abstract Bi 4 Ge 3 O 12 magneto-optic crystal was chosen as sensitive materials, and a current sensor based on Faraday rotation of materials was designed. A ferromagnetic collector with an air gap and ...

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