

Simulation diagram of fiber optic current sensor

Aiming at the problem that the accuracy of a fiber optic current sensor is susceptible to external disturbances and temperature fluctuations, we present ...

The operation of a current sensor was simulated based on Brillouin scattering. The transfer function was evaluated, and the effects of temperature exposure were analyzed for optical fibers containing ...

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Fig.1 shows the simulated normalized FOCS response as a function of the SOP azimuth of the linear SOP fixed at the lead fibre input.

The aim of the work was to develop a schematic diagram of a distributed current strength sensor based on the Brillouin optical frequency domain analysis; to create a mathematical model of the sensor to ...

In this paper a new full-optical current sensor is designed. The fiber-optic current sensor is based on the Faraday rotation effect, and moreover, in this paper the mechanism of Faraday rotation effect of ...

We used LabVIEW programming environment and Jones matrices formalism to develop the model of the sensor. We tested an algorithm that uses additional sinusoidal modulation and ...

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A fiber optic current sensor utilizing orbital angular momentum (OAM) beam is proposed in this paper. The superposition principle of composite OAM beam is deduced, and the current sensing process is ...

Structure diagram of reflective Sagnac all-fiber optic current sensor. N , I , and V are the number of the optical fiber winding the current conductor, the currents to be measured, and the ...

Aiming at the problem that the accuracy of a fiber optic current sensor is susceptible to external disturbances and temperature fluctuations, we present an adaptive technology of a fiber ...

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