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In this paper, we propose a study of an Er³⁺ DFB-FL sensor using COMSOL Multiphysics. The main purpose of this study is to provide essential data for a proper design of a device of this type.

The effect of environmental parameters on the composite material machine part is observed by the modification of the length of the Fabry-Perot interferometer formed by two Bragg grating mirrors. This ...

The first lens collimates the light emitted by the fiber, while the second lens focuses the collimated light onto the second fiber tip. The unidirectional formulation is a good choice, as all surfaces in this model ...

By analyzing electromagnetic field distributions, transmission and reflections coefficients, and power dissipation in a proposed design, simulation of this kind leads to more powerful and efficient products ...

In this paper three different types of Intensity Fiber Optic Displacement Sensors (I-FODS) are presented. Three configurations of I-FODS were realized in two varieties.

Parameter selection: Manuel (and also select one of the modes) Create Line Graph Dataset: from parent and select the line segment in the fiber geometry Expression: $emw(ewfd).normE$

This article reviews specifically the advanced fiber optic displacement sensing techniques that have been developed in the past two decades.

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displacement, pressure, temperature and electric field. Recently, high precision fiber displacement sensors have received significant attention for applications ranging from industrial to medical fields ...



COMSOL fiber optic displacement sensor

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