Simulation of Long-Period Grating Fibers

The transmittivity/reflectivity and input spectrum pulse intensity of long-period Bragg sensor variations are simulated against the grating wavelength variations.

A simulation model based on the finite-element method (FEM) and transfer matrix method (TMM) is developed for analyzing mechanical long-period fiber gratings (MLPFGs).

Simulation of Long-Period Fiber Gratings Formed with Helical Fiber. This application note shows how to simulate long-period fiber gratings (LPGs) using a helically twisted fiber instead of traditional UV ...

The simulation tool uses MatLab code. The software produces also estimations of the resonant wavelength displacement due to changes in external parameters like temperature or ...

According to the three-layer structure model of fiber and the theory of fiber coupling mode, the mode coupling characteristics of LPFG are deduced and simulated by MATLAB. The LPFG transmission ...

We present a new class of long-period fiber gratings that can be used as in-fiber, low-loss, band-rejection filters.

In this paper, we investigate modification of transmission spectra of long-period fiber grating structures with an acoustic shock front propagating along the fiber.

It can provide theoretical reference for the structure parameters design of the long-period fiber grating.

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