Long-period fiber grating shapes

We demonstrate two arc-induced long period fiber gratings (LPFGs) fabricated on the D-shaped fibers with the same structural parameter, which have a single dip and two resonance dips, ...

In this work, we reviewed the most important achievements of INESC TEC related to the fabrication of long-period fiber gratings using the electric arc technique.

In this paper, comprehensive remarks are given that focus on the main fabrications and wide applications of helical long-period fiber gratings (HLPGs). Firstly, the techniques of fabricating ...

Abstract: We demonstrated the fabrication of long-period fiber gratings (LPFGs) inscribed in the D-shaped double-cladding fiber (DCF) using CO 2 laser. The phase-matching curves of D-shaped DCF ...

Long period grating has a wide variety of applications, including band-rejection filters, gain flattening filter and sensors. Various gratings with complex structures have been designed: gratings combining ...

The strain response of a long-period fibre grating arise due to the physical elongation of the fibre, changing the grating pitch and the effective refractive index of the core and cladding due to the ...

A long-period fiber grating (LPG) is a one dimension (1D) periodic structure, and is formed by introducing periodic modulation of the refractive index along an optical fiber.

Long period fiber gratings (LPFGs) were fabricated in a standard single mode fiber (SMF-28e) through femtosecond (fs) laser direct writing. LPFGs with longer and shorter periods were fabricated, which ...

This review synthesizes and categorizes a class of novel long-period fiber gratings (LPFGs) engineered through the modification of the external cladding morphology or geometry. We ...

In this paper, we propose a new technique to fabricate long period gratings (LPGs) by mechanically applying a force to an optical fiber enclosed in a low-cost periodic 3-D printed polymeric...

In this work, for the first time, we demonstrate long period gratings (LPG) in nanostructured optical fibers and their response to gamma radiation.

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