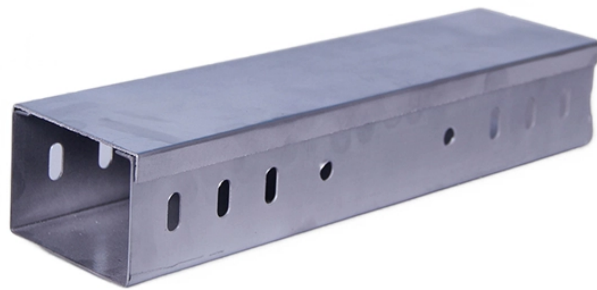


Long-period fiber gratings and short-period fiber gratings



Long-period fiber gratings and short-period fiber gratings



In this study long-period-fibre gratings (LPFGs) were prepared experimentally using a carbon dioxide (CO₂) laser pulse and SMF. The point by point (pbp) technique was used with ...



Understanding these gratings begins with a solid grasp of optical fiber properties and the functionality of the gratings themselves. This article offers a detailed exploration of both fundamental principles and ...



The transmission of a mode guided by the core of an optical fiber through an ultraviolet-induced fiber grating when substantial coupling to cladding modes occurs is analyzed both experimentally and ...



Examples are given to illustrate the wide variety of optical properties that are possible in fiber gratings. The types of gratings considered include uniform, apodized, chirped, discrete phase-shifted, and ...



Long-period fiber gratings are particularly interesting for multi-parameter sensing (e.g. of temperature and strain), and alternatively for strain sensing with very low sensitivity to temperature changes.



In this paper, we briefly introduce the principle of optical coupling, theoretical analysis, fabrication techniques, and applications of the FMF-LPFGs in optical communications and optical...



Based on the coupled-mode theory, the coupling mechanism of cascaded long- and short-period gratings (CLBGs) is analyzed, and the reflection spectrum with two reflection peaks resulting ...



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.



In this chapter we will make a review of the relevant aspects of LPFGs.



Various gratings with complex structures have been designed: gratings combining several LPFGs, LPFGs with superstructures, chirped gratings, and gratings with apodization.

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