

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 ...

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Thus, MF with diameter larger than 6  $\mu\text{m}$  is chosen for the following optical tunable device preparation, considering both the insertion loss due to the HRI overlay and the sensitivity to it. Fig. 6 ...

The major advantage of these all fiber systems, where the free space mirrors are replaced with a pair of fiber Bragg gratings (FBGs), is the elimination of realignment during the life of the system, since the ...

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Canning, J. et al. (2019): The paper reports on the fabrication of micro-structured polymer optical fiber Bragg gratings using two-photon polymerization. The technique enables the production of complex ...

Fiber Bragg grating (FBG) sensors have emerged as advanced tools for monitoring a wide range of physical parameters in various fields, including structural health, aerospace, biochemical, ...



# Gratings for Micro-Optical Fiber Optics Devices

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