

Eccentric fiber Bragg grating for refractometry

Saturday, 26 September 2020 14:02 (4 minutes)

In-fiber grating-based sensors have many advantages over conventional electric and alternative fiber optic sensor configurations. We proposed and fabricated an Eccentric Fiber Bragg Grating (EFBG) inscribed by Point-by-Point (PbP) in conventional single-mode fiber (Corning SMF-28) using an IR femtosecond laser. Potential applications of eccentric FBG in refractometry, sensing are further illustrated.

Topics

Session D. Biomedical optics and sensors technology

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Session Classification: Poster session