

Effect refractive index of hollow fiber



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Leveraging the validated complex refractive index, numerical simulations were conducted to elucidate the effects of incidence angle on the radiative performance of hollow-fiber-doped silica ...



We further obtain the modified expression which can be used to calculate the effective refractive indices of different modes in a hollow-core anti-resonant fiber based on the original ...



In this study we demonstrate theoretically as well as experimentally refractive index sensing using hollow core anti resonance fiber. The sensor measures resonance wavelength shift with respect to ...



In this paper, we numerically explore the antiresonance of cladding from a new angle and confirm unique and important roles of refractive index of cladding material played in the confinement, bend and ...



The effect on PMD by cabling was investigated, and by solving the problem in the fiber drawing process, the HCF was successfully cabled with no significant degradation in the optical properties.



To achieve ultra-wide refractive index sensing, a single nested node-less hollow core anti-resonant fiber is proposed. A gold film is plated in one of the cladding tubes to obtain the surface ...



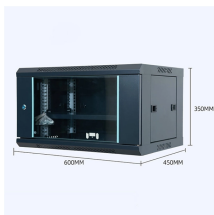
Here, we introduce a model that approximates, using the reflection of a wave on a single planar film, modal guidance in tube-type anti-resonant waveguides whose core diameters are large ...



(HCF), which consists of an air-filled core and a microstructured glass cladding . As the refractive index of air changes less with temperature than fused silica, the TCD of HCF is signi.



In this paper, we present a high sensitivity HC-NCF RI sensor based on the SPR effect and liquids infiltration. The single cladding tube is coated with Au in either the x or y -axis bending ...



We have also established that slight changes in the gas refractive index within the core and surrounding cladding holes induced by changes in gas pressure are sufficient to significantly affect both the ...

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