Anti-resonant hollow fiber technology

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This work presents an ultra-low loss hollow-core anti-resonant fiber design featuring a triple-nested cladding architecture with elliptical nested elements and six auxiliary compensation tubes located ...

Hollow-core anti-resonant optical fiber (HC-ARF) provides solutions for breaking the bottlenecks in areas of high-power transmission and high-efficiency optical waveguide.

Achieving robust single-polarization guidance in hollow-core fibers has remained a longstanding challenge, limiting their integration into precision photonic systems. Here, we report the ...

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 ...

Lumentum''s Hollow-Core Anti-Resonant Fibers (HC-ARFs) are engineered for high-power laser transmission featuring high threshold for non-linear effects, exceptional beam quality, and low ...

In this paper, an ultra-low loss hollow-core anti-resonant fiber (HC-ARF) operating in the near-infrared band is proposed. The ARF is based on six nested circular tubes made of silica.

This review presents an overview of recent progress in anti-resonant hollow-core fibers for sensing applications. Both regular and irregular-shaped fibers and their performance in various ...

In this work, we present a novel design for hollow-core anti-resonant fibers, specifically tailored to maximize light confinement and significantly minimize losses.

A novel hollow core anti-resonant fiber with glass-sheet conjoined nested elliptical tubes is proposed and investigated numerically. The elliptical tubes are introduced to original HC-ANF with ...

This review presents an overview of recent progress in anti-resonant hollow-core fibers for sensing applications. Both regular and irregular-shaped ...

This paper proposes a dual hollow-core anti-resonant fiber polarizing beam splitter based on a composite structure of nested tubes and cladding tubes. Two circular cladding tubes and one circular ...

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