Customization Process for Low-Noise Hollow-Core Fiber Optics in the Internet of Things

In this paper, we design and optimize a centrosymmetric elliptically nested conjoined tube multimode hollow-core anti-resonant fiber. The design idea is based on the theory of inhibited ...

In this work, a novel polarization-maintaining hollow-core fiber structure featuring a semi-circular nested dual-ring geometry is proposed.

This Special Issue invites submission of research work on hollow core fiber technology. It will address design, fabrication, optical transmission properties, and connectivity of hollow core fibers ...

Technologie Optic Inc. recognizes the transformative potential of hollow-core fiber technology and is actively investing in research, prototyping, and strategic partnerships to accelerate ...

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

We report the fabrication and characterisation of a multi-core anti-resonant hollow core fibre with low inter-core coupling. The optical losses were 0.03 and 0.08 dB/m at 620 and 1000 nm respectively, ...

We summarize our recent work in novel designs, advanced fabrication and distributed characterization of low-loss anti-resonant hollow-core fibre (AR-HCF).

In their paper, the authors showed that by modestly increasing the core diameter and optimizing coatings, losses as low as 0.02 dB/km could be potentially achievable. Furthermore, the...

Here, we report on the reduction of the core surface roughness of hollow-core fibers by modifying their fabrication technique.

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

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