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Author

Jing Lei. Yao Jian-Quan.

Author/Editor Affiliation

Jing Lei. Yao Jian-Quan. : College of Precision Instruments and Opto-electronic Engineering, Tianjin University, Tianjin 300072, China

Title

Single mode Condition and Power Fraction of Air-cladding Total Refractive Guided Porous Polymer Terahertz Fibers

Source

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Abstract

We investigate the single-mode condition and power fraction of an air cladding total internal reflection (TIR) guided porous polymer THz fiber. It is shown that the single mode condition and a high fraction of power in air holes cannot be simultaneously met in porous fibers. Employing the V parameter and the Lorentz-Lorenz formula, we analyze this problem theoretically. (25 References).