

585

标题: Ultra low bending loss equiangular spiral photonic crystal fibers in the terahertz regime

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摘要: An Equiangular Spiral Photonic Crystal Fiber (ES-PCF) design in Topas (R) R for use in the Terahertz regime is presented. The design shows ultra low bending loss and very low confinement loss compared to conventional Hexagonal PCF (H-PCF). The ES-PCF has excellent modal confinement properties, together with several parameters to allow the optimization of the performance over a range of important characteristics. A full vector Finite Element simulation has been used to characterize the design which can be fabricated by a range of techniques including extrusion and drilling. Copyright 2012 Author(s). This article is distributed under a Creative Commons Attribution 3.0 Unported License. [<http://dx.doi.org/10.1063/1.4726055>]

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