

# **Abstract**

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## **Axial Temperature Distribution in W-Tailored Optical Fibers**

In the present paper, the thermal effects in W-shaped core refractive index optical fibers are investigated. The aim is to minimize its harmful effects on the maximum axial temperature inside the fiber core by selecting suitable values for the affecting parameters. These include the index tailoring parameters, core radius, core absorption coefficient and intensity of light launched to the fiber core.