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Temperature Sensing with Fibre Bragg Grating and No-Core Fibre

(📄 Article in press ?)

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Abstract

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In this paper, optical fibre Bragg grating (FBG) and no-core fibre (NCF) sensors have been investigated for their performance in the temperature range 30–100 °C. The change in Bragg and NCF wavelengths with temperature changes was used to determine the performance and sensitivity of the sensors. The gradient of $\Delta \lambda_{\text{FBG}}$ and λ_{NCF} versus temperature leads the sensitivity of the FBG and NCF sensors as 23.97 and 20.08 pm/°C, respectively. © 2020, The National Academy of Sciences, India.

SciVal Topic Prominence ⓘ

Topic: Refractive Index Sensor | Mach-Zehnder Interferometers | Fiber Sensor

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