

This review focuses on MMI fiber sensors for nonconventional physical variables, including mechanical, electromagnetic, chemical, and optical, covering around fifteen years of work in the field.

In this work, a machine-learning-based model is proposed to analyze the interference signal of an interferometric fiber sensor system and characterize the bending magnitude and ...

Scientists have demonstrated a fiber-optic sensing method that detects strain and displacement by reading interference patterns in the electrical spectrum after photodetection. The ...

New sensing method: Japanese scientists demonstrated a fiber-optic strain sensor that reads interference patterns in the electrical spectrum instead of using optical analyzers. Why it matters: The ...

Fiber-optic sensing operates on the principle that light traveling through an optical fiber alters its properties when subjected to external forces. Strain, for instance, changes the fiber's length ...

engineering, Shibaura Institute of Technology, Tokyo 135-8548, Japan Abstract A strain-insensitive temperature sensor based on multimode interference using standard multimode fibers (MMFs) is prop.

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This review focuses on MMI fiber sensors for nonconventional physical variables, including mechanical, electromagnetic, chemical, and optical, covering ...

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Scientists unveil innovative fiber-optic sensing method detecting strain and displacement through interference patterns in electrical spectrum. Published in IEEE Sensors Journal on April 27, ...

What this article is about: Researchers at Yokohama National University have shown a new fiber-optic sensing method that reads interference patterns straight from the electrical spectrum ...

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