Microstructure Fiber Optic Sensing

This article introduces optical fiber sensors, covering their definition, principle, types, applications, selection specs and future trends.

This paper reviews a wide variety of fiber-optic microstructure (FOM) sensors, such as fiber Bragg grating (FBG) sensors, long-period fiber grating (LPFG) sensors, Fabry-Perot...

This review offers a comprehensive overview of recent advances in MOF technologies, emphasizing significant innovations in fiber design and fabrication and their influence on sensor performance over ...

Here, we review the modern techniques used for the modification of the fiber"s structure, which leads to an enhanced detection sensitivity, as well as the surface functionalization processes used for ...

In this review we first summarize fabrication methods and transmission mechanisms of microstructured fibers.

In this paper, a review of microstructured optical fiber (MOF) sensors is given. Various kinds of MOFs are described and their sensing applications are summarized.

Learn about fiber optic sensor types, how they work, and their widespread applications in various industries.

Here, we comprehensively review the recent progress in the micro-structured fiber-optic sensors with a variety of architectures regarding their fabrications, waveguide properties and sensing ...

Each FOM sensor has been introduced in the terms of structure types, fabrication methods, and their sensing applications.

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