



## **Optical Fiber Sensors: Advanced Techniques and Applications (Devices, Circuits, and Systems)**

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# Optical Fiber Sensors: Advanced Techniques and Applications (Devices, Circuits, and Systems)

## Optical Fiber Sensors: Advanced Techniques and Applications (Devices, Circuits, and Systems)

Optical Fiber Sensors: Advanced Techniques and Applications describes the physical principles of, and latest developments in, optical fiber sensors. Providing a fundamental understanding of the design, operation, and practical applications of fiber optic sensing systems, this book:

- Discusses new and emerging areas of research including photonic crystal fiber sensors, micro- and nanofiber sensing, liquid crystal photonics, acousto-optic effects in fiber, and fiber laser-based sensing
- Covers well-established areas such as surface plasmon resonance sensors, interferometric fiber sensors, polymer fiber sensors, Bragg gratings in polymer and silica fibers, and distributed fiber sensors
- Explores humidity sensing applications, smart structure applications, and medical applications, supplying detailed examples of the various fiber optic sensing technologies in use

**Optical Fiber Sensors: Advanced Techniques and Applications** draws upon the extensive academic and industrial experience of its contributing authors to deliver a comprehensive introduction to optical fiber sensors with a strong practical focus suitable for undergraduate and graduate students as well as scientists and engineers working in the field.

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