



# Fiber Optic Sensors: An Introduction for Engineers and Scientists

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# Fiber Optic Sensors: An Introduction for Engineers and Scientists

## **Fiber Optic Sensors: An Introduction for Engineers and Scientists**

A comprehensive introduction to this fast growing technology

This book provides an introduction to the rapidly advancing and expanding field of fiber optic sensors, with chapters contributed by internationally recognized experts. Each of the three sections-Basic Components, Technology, and Applications-offers a stand-alone primer on a key area of the field. Together, they give engineers, scientists, graduate students, and advanced undergraduates a comprehensive resource on fiber optic sensors.

Initial chapters cover optical fibers, light sources, and detectors and optical modulators, introducing the fundamental building blocks of fiber optic sensors and pointing out the many connections between these elements and fiber optic sensor technology. Subsequent chapters cover:

- \* Extrinsic or hybrid fiber optic sensors
- \* Intensity sensors for monitoring temperature, position, and other environmental aspects
- \* The Fabry-Perot based fiber optic sensor
- \* The Mach-Zehnder interferometer
- \* The Sagnac interferometer and fiber gyroscopes
- \* Displacement fiber optic sensors
- \* Polarization sensors
- \* Industrial applications of fiber optic sensors
- \* Fiber optic smart structures

Pooling the expertise of leading professionals, Fiber Optic Sensors supplies an integral resource for understanding a key area of optical science and telecommunications.

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