

Learn the intricacies of optical fiber sensor fabrication and its applications in various industries, including healthcare and telecommunications.

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Make your intrinsic fiber-optic sensor system at home, using your mbed/arduino, RaspberryPI and cheap optical fibers

There are a lot of possible methods to achieve the goal, but I'll focus on sensors being wavelength specific optical devices. In theory, simplest one is fiber Bragg grating, FBG.

Radiation absorption creates electronic excited states that are trapped by localized defects for extended periods of time. Heating the material enables the trapped states to interact with phonons and decay ...

The apparatus includes a robotic articulate arm that may modify the geometry of an optical fiber with either silica or polymer cladding and fabricate sensor probes by decladding the polymeric...

This Editorial brings attention to several notable contributions, showcasing advancements in the design, functionality, and implementation of fiber-optic sensor technology.

Here, we are looking for some way of modulating the passing light with the measured quantity, usually in form of amplitude, spectral or phase modulation. The easiest way is amplitude ...

This project aims to describe repeatable way of producing simple and cheap fiber optic sensors, capable of measuring mechanical force, perhaps also other physical quantities.

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Therefore, it is essential to exploit novel fiber-optic structures to disturb the light propagation, thereby enabling the interaction of the light with surroundings and constructing fiber-optic sensors.

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