

High-sensitivity optical fiber



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A high-sensitivity fiber optic temperature sensor based on the enhanced harmonic Vernier effect (HVE) is proposed, which consists of two Fabry-Perot interferometers (FPI) that are ...



The research in this paper has enlightening significance for exploring new optical fiber sensing technology and will open a new design methodology for optical fiber sensors.



Table I compares the sensitivity of optical fiber temperature sensors over the last five years. It can be seen that the proposed sensor exhibits higher sensitivity while retaining a ...



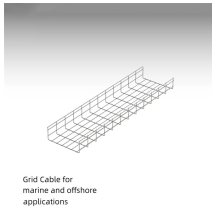
This study focuses on the design, fabrication, and optimization of flexible tapered optical fiber sensors using CaAlg Micro/nanotechnology enables these sensors to achieve high sensitivity ...



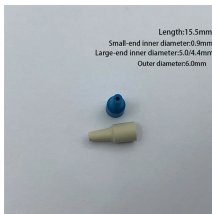
Abstract: To achieve highly sensitive measurements of strain, a U-shaped optical fiber sensor (OFS) based on seven-core photonic crystal fiber (SCPCF) was designed.



A semi fixed extrinsic magnetic field sensor (MFS) with high sensitivity based on giant magnetostrictive material (GMM) and Fabry-Perot (F-P) was proposed here.



Owing to their advantages, such as compact size, light weight, immunity to electromagnetic interference, high sensitivity, wide temperature range, stability, and durability, optical ...



Owing to their advantages, such as compact size, light weight, immunity to electromagnetic interference, high sensitivity, wide temperature ...



Abstract Fiber-optic sensing (FOS) technology has emerged as a cutting-edge research focus in the sensor field due to its miniaturized structure, high sensitivity, and remarkable electromagnetic ...



We have developed a highly sensitive fiber optic sensor that can measure temperature and pressure. The sensor comprises two Fabry-Perot interferometers (FPIs), FPI 1 and FPI 2, ...



A high-sensitivity temperature sensor based upon an optical fiber Fabry-Perot interferometer (FPI) filled with polydimethylsiloxane (PDMS) is reported that employed a single mode ...

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