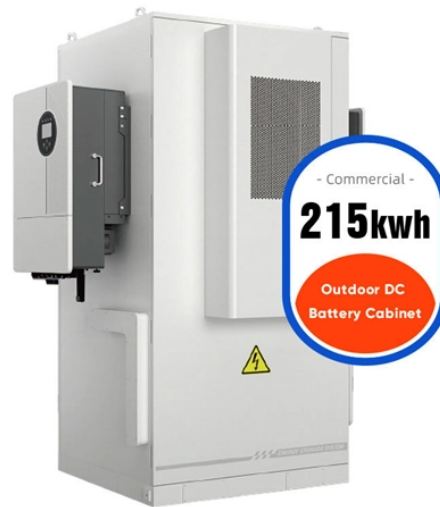


Fiber Optic Sensing Technology at Thai Polytechnic University



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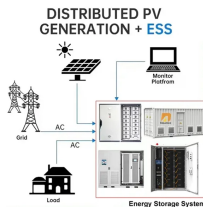
We welcome colleagues and collaborators around the world to work together to make important advances in the fundamental knowledge of photonics and develop new technology applications.



From energy and transportation to agriculture and cybersecurity, fiber sensing is quietly revolutionizing industries with applications once thought ...



This paper reviews domestic and international research on fiber-optic sensors based on FP interferometry.



From energy and transportation to agriculture and cybersecurity, fiber sensing is quietly revolutionizing industries with applications once thought impossible. In this article, the authors ...



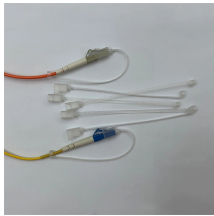
This review summarizes recent progress and emerging trends in multiparameter optical fiber sensing, emphasizing techniques that enable the simultaneous measurement of temperature, ...



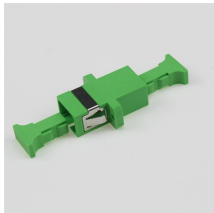
Here we perform the LSPR biosensor in a transmission-based fiber-optic sensor by using a gold-coated optical fiber with different unclad lengths. The simple setup and sensitivity of the gold-coated optical ...



Based on the above theoretical and technical bottlenecks, advances in performance enhancements and typical applications of Raman distributed optical fiber sensing are reviewed in this ...



Fiber optic sensors are increasingly utilized in structural health monitoring in civil, aerospace, and energy applications. The recent surge in commercial demonstrations of these sensor systems both ...



We discuss the advantages of phase sensitive distributed fiber sensing techniques enabled by a new generation of optical fibers that exhibit enhanced backscattering.



As such, fiber optic sensing technology (FOST) has emerged as a promising tool for underground pipeline monitoring. This review article provides a comprehensive overview of FOST, ...



In this paper, an overview of fiber optic sensors and their applications are presented. Recent advances in fiber optic technology have significantly reduced losses, enhancing sensor capabilities. Fiber optic ...

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