The Development History of Fiber Optic Acoustic Sensors

Overview

Fiber-optic interferometric acoustic sensors were first proposed for US Navy applications 36 years ago. This paper will review the origin, development and deployment of these sensors. Future applications will also be discussed. This content is available for download via your institution's subscription. To access this item, please sign. Fiber-optic sensor technology has experienced tremendous growth since its early beginnings in the 1970s with early laboratory demonstrations of fiber-optic gyros and acoustic sensors and the introduction of the first commercial intensity and spectrally based sensors. These early efforts were. The Design Of Fiber Optic Sensors For Measuring Hydrodynamic. Navy's effort to develop sensors that used optical fiber to detect targets at sea offers a window into how a technology goes from basic research to production.

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