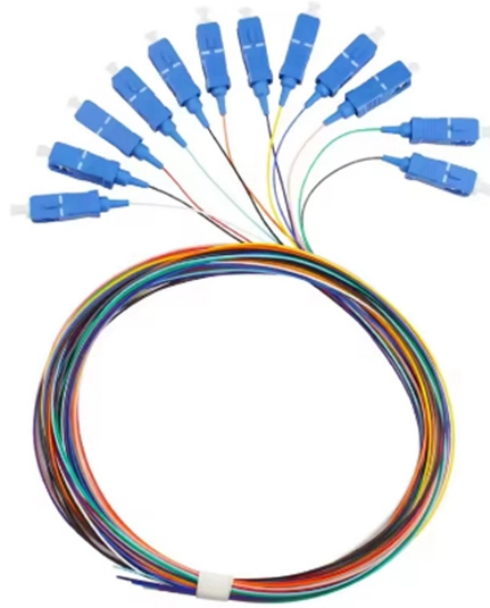
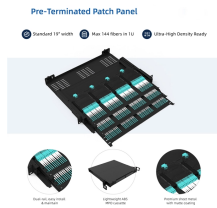


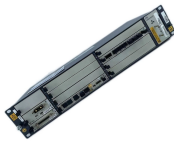
# **Imported Interferometric Fiber Optic Sensors**



## Imported Interferometric Fiber Optic Sensors



In this paper, we review two kinds of typical in-line fiber optic interferometers formed in single-mode fibers fabricated with different post-processing techniques. Also, some recently reported specific ...



This chapter provides a development history of interferometric fiber sensing from the very first field experiments, through advanced demonstrations, and ultimately to a deployed sensing ...



This article is a comprehensive overview of the different types of in-fiber interferometric sensors that presents and discusses recent developments in the field.



In this review, we examine and compare over 400 fiber optic interferometers as well as more than 60 fiber optic refractive sensors based on fiber optic cavities.



This paper aims to review and categorize fiber optic interferometric sensors according to their operating principles, fabrication methods, and application fields.



Brief theory of sensing principle, fabrication method, applications, advantages and disadvantages of the different fiber-optic sensors, are addressed. ...



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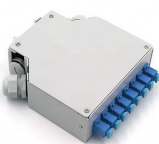
Section 3 presented the interferometric fiber-optic sensors, whereas Section 4 was devoted to FBG sensors. The latter have gained extensive usage in various SHM composite applications; hence ...



Most fiber optic sensor configurations are based on Fabry-Perot, Mach-Zehnder, Michelson, or Sagnac interferometric systems with fiber specialized for the specific application.



In this paper, each type of interferometric sensor is reviewed in terms of operating principles, fabrication methods, and application fields.



In this article, we present a comprehensive study of optical fiber-based microwave-photonic interferometers, which are based on a recently developed technique, optical carrier-based ...

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