

We proposed a compact and tunable multimode interferometer (MMI) based on an asymmetric wavy fiber (AMWF), which has axial offset, off-center taper waist, and micro-length.

Fiber optic devices based on multimode interference (MMI) are easy to fabricate and offer attractive prospects for applications in the areas of optical communication and fiber lasers as well as ...

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 ...

In this paper, an all-fiber Mach-Zehnder interferometer (MZI) sensor for refractive index (RI) measuring is presented, which is based on Multimode-Single-mode-Multimode (MSM) fiber.

A multi-mode interferometer (MMI), also known as a multimode interference coupler, is a micro-scale structure in which light waves can travel, such that the optical power is split or combined in a ...

In this paper, we report on a new approach to enhance the sensing capabilities of self-image phenomenon-based multimode interference sensors by setting SMS structures and FPIs into an in ...

In view of the problem that the sensing characteristics of the multi-mode interferometric fiber sensors cannot be accurately analyzed, an analysis method based on the fast Fourier transform...

This work presents the sensitive modal analysis of a long reflective multimode optical fiber device for angle and temperature. The reflective ...

This chapter addresses simple optical fiber sensors based on modal interference in multimode optical fibers: their working principles, potential applications, and challenges for industrial ...

This work presents the sensitive modal analysis of a long reflective multimode optical fiber device for angle and temperature. The reflective multimode interference optical fiber device was ...

This review presents MMI-based fiber sensors with a specific focus on the probe structures, measurement methods, and sensing properties of different structures.

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