

عنوان مقاله:

A Review: application and uses of optical fibre

محل انتشار:

اولین کنفرانس برق، مکانیک، هوافضا، کامپیوتر و علوم مهندسی (سال: 1401)

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خلاصه مقاله:

This paper presents an overview of the fiber optics. An optical fiber, or optical fibre in Commonwealth English, is a flexible, transparent fiber made by drawing glass (silica) or plastic to a diameter slightly thicker than that of a human hair. Optical fibers are used most often as a means to transmit light between the two ends of the fiber and find wide usage in fiber-optic communications, where they permit transmission over longer distances and at higher bandwidths (data transfer rates) than electrical cables. Fiber nonlinearities are limited components for material science, in particular for wavelength division multiplexing. Among the nonlinearities impact is four-wave blending, which is a nonlinear procedure that produces new frequency components from existing frequency components. Different parts of fiber optics and its related parameters as far as various components have been studied in this paper

کلمات کلیدی:

optical fibre, electrical cables, communications

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