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• Optical fibers are widely used in Fiber-optic communications, which permits transmission over longer distances and at higher bandwidths (data rates) than other forms of communication. • Fibers are used instead of metal wires because signals travel along them with less loss and are also immune to electromagnetic interference.

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Need of fiber optic communication Fiber optic communication system has emerged as most important communication system. Compared to traditional system because of following

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requirements : 1. In long haul transmission system there is need of low loss transmission medium 2. There is need of compact and least weight transmitters and receivers. 3.

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The communication system of fiber optics is well understood by studying the parts and sections of it. The major elements of an optical fiber communication system are shown in the following figure. The basic components are light signal transmitter, the optical fiber, and the photo detecting receiver.

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Fiber-optic communication is a method of transmitting information from one place to another by sending pulses of infrared light through an optical fiber. The light is a form of carrier wave that is modulated to carry information. Fiber is preferred over electrical cabling when high bandwidth, long distance, or immunity to electromagnetic interference is required.

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