

5.1 Introduction to fiber optics

An optical fiber is a hair thin cylindrical fiber made of glass or any transparent dielectric material. It is used for optical communication as a waveguide. It transmits signals in form of light. The optical fiber optical communication system is shown in Fig 5.1.

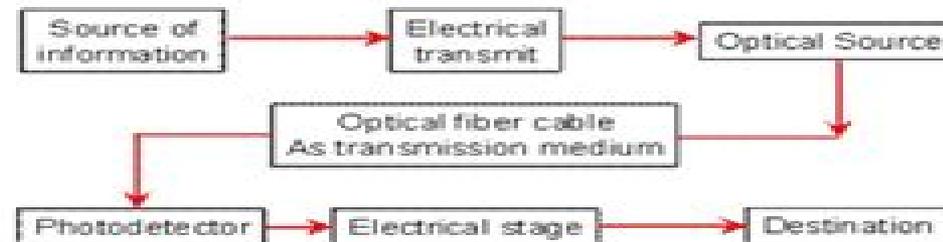


Fig.5.1 optical fiber optical communication system

Optical fiber is backbone of communication system it carry a signal with a speed up to 1Tbit/sec or 100 million conversation simultaneously.

5.1.1 Structure of optical fiber

Core- Central tube of very thin size made up of optically transparent dielectric medium and carries the light form transmitter to receiver.

Cladding- Outer optical material surrounding the core having refractive index lower than core. It helps to keep the light within the core throughout the phenomena of total internal reflection.



Fig. 5.1 Structure of optical fiber

Engineering Physics Notes For Fibre Optics

Xiang Xie



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