

Fibre Optics- Engineering Physics

Fibre Optics

Fibre optics is concerned with the propagation of light through tiny glass fibres. John Tyndall initially demonstrated the transmission of light over a thin cylindrical glass fibre by total internal reflection and this phenomenon was tested in the realm of communication.

In most communication systems, communication is sent using carrier waves. When the carrier waves' frequencies are high, the data carrying capacity increases as well. Because light propagates in the form of high frequency waves, these light waves can be employed as carrier waves to transmit information. For the proper directing of information carrying light waves, a good guiding medium is required. The material in question is an optical fibre.

➤ Optical fibre

Optical fibre is a thin, transparent guiding medium or material that transmits data via light waves. Optical fibre must be transparent to guide light waves. It is manufactured thin to reduce transmission and distribution losses across the optical fibre.

➤ Optical Fiber Working Principle (Total internal reflection)

The phenomenon of complete internal reflection is used to transmit light through an optical cable. The innermost layer of an optical fibre is known as the core, which is a denser medium, and the next layer is referred to as the cladding, which is a rarer medium of communication.

The refracted light rays curve far from the normal when it travels from a denser medium to a rarer medium. The refracted beam reflects back into the same medium when the incident angle is greater than the critical angle. This process is referred to as total internal reflection.

Consider the reflection coefficient of core and cladding mediums, which are n_1 and n_2 , respectively. If a light ray travels from the core medium to the cladding medium, the refracted ray curves out from the normal at an incidence angle i and refraction angle r .

Engineering Physics Notes For Fibre Optics

G Thomas



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