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## Engineering Physics Notes For Fibre

Engineering Physics Notes For Fibre An optical fiber is a cylindrical dielectric waveguide made of low- loss materials such as silica glass. It has a central core in which the light is guided, embedded in an outer cladding of slightly lower refractive index (Fig. 8.0-1).

## Engineering Physics Notes For Fibre Optics

Fiber Optics for Engineering Physics: An optical fiber or optical fiber is a flexible, transparent fiber made by drawing glass (silica) or plastic to a diameter slightly thicker than that of a human hair. Manufacturing of Optical Fiber: Fig. 1. Manufacturing of Optical Fiber

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3. Optical Fiber• Core - Glass or plastic with a higher index of refraction than the cladding - Carries the signal• Cladding - Glass or plastic with a lower index of refraction than the core•

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Buffer - Protects the fiber from damage and moisture • Jacket - Holds one or more fibers in a cable. 4.

## **physics b.tech. 1st sem fibre optics,u 4**

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## **Engineering Physics Notes For Fibre Optics**

B.Tech sem I Engineering Physics U-I Chapter 1-Optical fiber 1. OPTICAL FIBER 1 2. Basic principle Total Internal Reflection in Fiber An optical fiber (or fibre) is a glass or plastic fiber that carries light along its length. Light is kept in the "core" of the optical fiber by total internal reflection. 3.

## **B.Tech sem I Engineering Physics U-I Chapter 1-Optical fiber**

An optical fibre consists of a vary thin transparent cylindrical core having refractive index  $n_1$  surrounded by a cylindrical shell called cladding of slightly lower refractive index  $n_2$ . The core cladding system is surrounded by plastic jackets. Optical fibres are hair thin threads of glass or plastic.

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GLOBAL COLLEGE OF ENGINEERING &TECHNOLOGY: YSR DIST. Unit -VII Fiber Optics Engineering Physics P.Sreenivasula Reddy M.Sc, (PhD) Website: [www.engineeringphysics.weebly.com](http://www.engineeringphysics.weebly.com) Page 7 According to Snell's law at point A  $J 4 \sin \theta \rightarrow 4 L J 5 \sin \theta \rightarrow 5 \sin \theta \rightarrow 4 L J 5 J 4 \sin \theta \rightarrow 5$  According to Snell's law at point B

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Atomic radius (r) - The atomic radius is defined as half the distance between neighboring atoms in a crystal of pure element. 4) What are properties of matter Waves. De-Broglie proposed the concept of matter waves, according to which a material particle of

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