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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-l).

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Fiber optic cables are much thinner and lighter than metal wires. Data can be transmitted digitally (the natural form for computer data) rather than analogically. fibers are also immune to electromagnetic interference, a problem from which

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metal wires suffer excessively.

Fiber Optics for Engineering Physics - semesters.in
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Teaching guide: Engineering physics

Unit -I LASER Engineering Physics Introduction LASER stands for light Amplification by Stimulated Emission of Radiation. The theoretical basis for the development of laser was provided by Albert Einstein in 1917. In 1960, the first laser device was developed by T.H. Mainmann. 1.

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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.

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1-Optical fiber

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4 Co-ordination number = 8 Nearest neighbor distance
= $\sqrt{3} a$ Lattice constant = $a = 4 \text{ \AA}$ $\sqrt{3}$ Number of atoms
per unit cell = $z = 4$ Volume of all atoms in unit cell =
 $V = z \times \frac{4}{3} \pi r^3$ Volume of unit cell = $V = a^3 = (4 \text{ \AA} \sqrt{3})^3$
Atomic Packing Factor is $\frac{z \times \frac{4}{3} \pi r^3}{V} = \frac{4 \times \frac{4}{3} \pi r^3}{(4 \sqrt{3})^3}$

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Single mode fibre. If for the mode with $p=1$ θ_c is greater than the critical angle for the total internal reflection θ_c then it cannot propagate, only the $p=0$ mode will. This is the case for a single mode fibre. To generalise a fibre will carry modes $0,1,2,\dots,p-1$ (that is, p modes) if $2.2 \cdot 2 \cdot d < p \cdot \lambda \cdot n_f$.

Lecture 3: Fibre Optics - University of Sheffield
 $V = \frac{\pi d}{\lambda} \sqrt{\mu_1^2 - \mu_2^2} = 2 \cdot NA$ Where, d = fiber core diameter ; λ = wavelength of light NA =numerical aperture
For a single mode fiber, $V \leq 2.4$ and for multimode fiber, $V \geq 2.4$. Mathematically, the number of modes for a fiber is given by: For Step-index For Graded-index

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