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For Fibre Optics

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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

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slightly lower refractive index
(Fig. 8.0-1).

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Notes For Fibre Optics Keywords

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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

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immune to electromagnetic interference, a problem from which metal wires suffer excessively.

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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

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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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ordination number = 8 Nearest
neighbor distance = $3/2$ Lattice
constant = $a = 4 \text{ \AA}$ 3 Number of

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atoms per unit cell = $v = 1$ Volume
of all atoms in unit cell = $v = 2 \times$
 $\frac{4}{3} r^3$ Volume of unit cell = $V =$
 $a^3 = (4r)^3$ Atomic Packing
Factor is $\frac{2 \times \frac{4}{3} r^3}{(4r)^3}$

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Single mode fibre. If for the mode with $p=1$. 1 is greater than the critical angle for the total internal reflection . c then it cannot propagate, only the $p=0$ mode will. This is the case for a single mode

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fibre. To generalise a fibre will carry modes $0, 1, 2, \dots, p-1$ (that is, p modes) if $2.2.2 d < p \cdot n f -$.

Lecture 3: Fibre Optics -
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$$d \quad d V = \mu_1 - \mu_2 = 2.2 \text{ NA}$$

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Where, d = fiber core diameter ; λ = wavelength of light
NA = numerical aperture For a single mode fiber, $V < 2.4$ and for multimode fiber, $V > 2.4$

2.4. Mathematically, the number of modes for a fiber is given by:
For Step-index For Graded-index

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