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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 metal wires suffer excessively.

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Teaching guide: Engineering physics

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Unit –I LASER Engineering Physics

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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.

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

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Engineering Physics I B.Tech CSE/EEE/IT & ECE GRIET 4 Co-ordination number = 8 Nearest neighbor distance = $\frac{a\sqrt{3}}{2}$ Lattice constant = $a = 4 \text{ \AA}$ Number of atoms per unit cell = $z = 4$ Volume of all atoms in unit cell = $V_{atoms} = z \times \frac{4}{3} \pi r^3$ Volume of unit cell = $V = a^3 = (4 \text{ \AA})^3$ Atomic Packing Factor is $\frac{V_{atoms}}{V} = \frac{4 \times \frac{4}{3} \pi r^3}{(4 \text{ \AA})^3}$

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Single mode fibre. If for the mode with $p=1$ $n_1 \sin \theta_c$ 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 $n_1 \sin \theta_c < p \lambda / 2d$.

Lecture 3: Fibre Optics - University of Sheffield

$n_1 \sin \theta_c < p \lambda / 2d$ Where d = fiber core diameter ; λ = wavelength of light $NA = n_1 \sin \theta_c$ For a single mode fiber, $V < 2.4$ and for multimode fiber, $V > 2.4$. Mathematically, the number of modes for a fiber is given by: For Step-index For Graded-index

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