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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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lighter than metal wires.

Data can be transmitted

digitally (the natural form  
for computer data) rather  
than analogically. fibers  
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all atoms in unit cell =  $v = 2 \times \frac{4}{3} \pi r^3$  Volume of unit cell =  $V = a^3 = (4 \text{ \AA} \sqrt{3})^3$  Atomic Packing Factor is  $2 \times \frac{4}{3} \pi r^3$

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= fiber core diameter ;  $\lambda$  = 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 physics b.tech. 1st sem fibre optics, u 4b.tech 1st year physics study material, Physics Notes, engineering physics 1st year, b tech 1st year physics notes jntu, engineering physics 1st year Title: Engineering Physics

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angle for the total internal

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cannot propagate, only

the  $p=0$  mode will. This is

the case for a single mode

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will carry modes

$0, 1, 2, \dots, p-1$  (that is,  $p$

modes) if  $2.2d < p \cdot \lambda_n$

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$V = \frac{\pi d^2}{4} \sqrt{\mu_1^2 - \mu_2^2} = 2.2 \frac{NA}{\lambda}$  Where,  $d$  = fiber core diameter ;  $\lambda$  = 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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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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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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