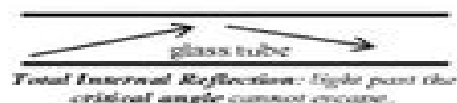


Total Internal Reflection

Light usually passes through clear boundaries, but if it strikes at an angle greater than the *critical angle* will stay inside the medium (glass, air, etc.). **Total internal reflection** is when all the light is reflected back inside the medium. The critical angle for glass is about 41° .



Fiber Optics

Fiber optics work by *total internal reflection*.



Fiber optics pass light through flexible glass or plastic tubes (called fibers). These tubes can be bent allowing light to be directed where it is wanted.



Fiber optic scopes can see around corners.



Fiber optic cables carry much of the communications of our world (Internet and phone) because it travels at the speed of light.

Incandescent Light

Incandescent (normal light bulbs) make light by very high heat. The *filament* glows bright when enough electricity flows through it.

Incandescent light is very inefficient because most of the energy is lost as heat.



Types of Lights

Fluorescent Light



Fluorescent Lightbulb

Fluorescent lights are four times more efficient than incandescent bulbs. 3/4 of the energy of an incandescent bulb is lost to heat.

In fluorescent light bulbs electricity excites a gas inside, emitting mostly UV light. The white coating on the outside of the bulb absorbs the UV light and emits white light.

Light is a *transverse* wave (vibrating 90° to the direction of motion).

Normal light is chaotic, with transverse waves moving in all directions. A *polarizer* allows only light going one direction to go through (like a comb).

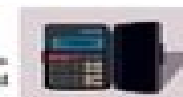


Polarization

Polarization is used in some sunglasses to reduce glare.



Polarization also allows small computers and calculators screens to make letters and images.



Glow-in-the-Dark

Glow-in-the-dark (*photoluminescent*) objects contain the element *phosphorous*. When phosphorous' electrons are energized, they come down a few at a time, giving off light over time. When all the electrons have fallen the phosphorous goes dark. Visible light recharges them (raising them up) so that they give off light again.



Phosphorous atoms give off light gradually, seeming to glow-in-the-dark.

Lasers

LASER - Light Amplification by Stimulated Emission of Radiation

How Lasers Work

Lasers give off light of one particular wavelength. This comes from forcing a substance (usually a gas) to give off light. This light bounces back and forth between mirrors, causing other atoms to give off more light. When the light is powerful enough it escapes as a laser beam.



Concave laser lights refract, but don't ever spread out in a prism.

Why We Use Lasers

Laser light is compact: it **doesn't spread out** like regular light. That's why we use them for pointers and why they don't bend in prisms.

Lasers can be **powerful**. Some lasers are used industry and medicine for precision cutting. Military lasers are just now able to blow up incoming missiles.

Miscellaneous Light Topics Answers

Yan Bai



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