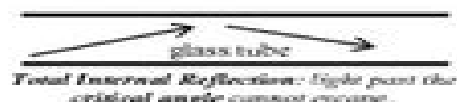


**Total Internal Reflection**

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  $41^\circ$ .



**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  $90^\circ$  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 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

**Jianjun Gao**



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