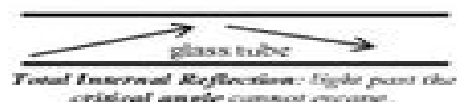


**Total Internal Reflection**

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).

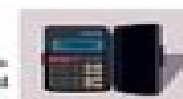


**Polarization**

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 Topic Answers

**Peipei Pang**



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## **Table of Contents Miscellaneous Light Topic Answers**

1. Understanding the eBook Miscellaneous Light Topic Answers
  - The Rise of Digital Reading Miscellaneous Light Topic Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Miscellaneous Light Topic Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Miscellaneous Light Topic Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Miscellaneous Light Topic Answers
  - Personalized Recommendations
  - Miscellaneous Light Topic Answers User Reviews and Ratings
  - Miscellaneous Light Topic Answers and Bestseller Lists
5. Accessing Miscellaneous Light Topic Answers Free and Paid eBooks
  - Miscellaneous Light Topic Answers Public Domain eBooks
  - Miscellaneous Light Topic Answers eBook Subscription Services

- Miscellaneous Light Topic Answers Budget-Friendly Options
- 6. Navigating Miscellaneous Light Topic Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Miscellaneous Light Topic Answers Compatibility with Devices
  - Miscellaneous Light Topic Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Miscellaneous Light Topic Answers
  - Highlighting and Note-Taking Miscellaneous Light Topic Answers
  - Interactive Elements Miscellaneous Light Topic Answers
- 8. Staying Engaged with Miscellaneous Light Topic Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Miscellaneous Light Topic Answers
- 9. Balancing eBooks and Physical Books Miscellaneous Light Topic Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Miscellaneous Light Topic Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Miscellaneous Light Topic Answers
  - Setting Reading Goals Miscellaneous Light Topic Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Miscellaneous Light Topic Answers
  - Fact-Checking eBook Content of Miscellaneous Light Topic Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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