

Optics - The Study of Light

Refraction

Light refracts when passing between two substances at an angle.

Light does not bend as glass that is not yet at an angle. (straight through)

SLAB

Light bends as it goes from air to water. (refractive index) as it goes from air to water.

The refractive index (n) is the ratio of the speed of light in a vacuum to the speed of light in a medium.

SLAB

SLAB

At the top of the slab, the light is at an angle. At the bottom, it is at an angle.

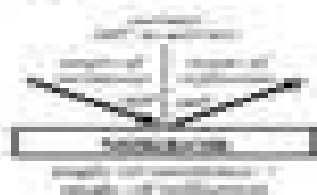
Reflection

Light reflects off a surface. (angle of incidence = angle of reflection)

Normal - an imaginary line that is perpendicular to a surface.

Angle of Incidence - the angle between the incident ray and the normal.

Angle of Reflection - the angle between the reflected ray and the normal.



Focus

Focus - the point where parallel rays of light converge after reflecting off a curved surface. (focal point)



Concave Mirror

Concave mirrors and lenses can make objects look bigger or smaller. They can also focus light to a point (focus).



Convex Mirror

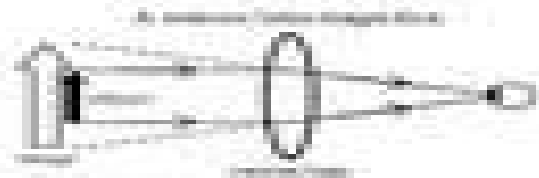
The convex mirror can make objects look smaller.

The convex mirror can also make objects look larger.

Lens

Concave and convex lenses converge or diverge light. (focal point)

Concave lenses diverge light. (focal point)



Concave lens is diverging. (focal point)

Convex lens is converging. (focal point)



Convex lens is converging. (focal point)

Concave lens is diverging. (focal point)

Concave Lens

Concave lens is diverging. (focal point)

Convex lens is converging. (focal point)

Optical System



Optical systems use lenses and mirrors to focus light. (focal point)

Optical systems can be used to focus light. (focal point)

Image

Image - the result of light rays converging or diverging. (focal point)

Image - the result of light rays converging or diverging. (focal point)

Image - the result of light rays converging or diverging. (focal point)

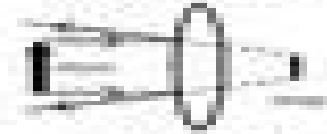


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Optics The Study Of Light Key

JE Gale



Optics The Study Of Light Key:

Optics The Study Of Light Key Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Optics The Study Of Light Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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