

Geometric optics cont.

Concave Mirror

Concave mirrors are mirrors that curve away from the object. Concave mirrors always produce the same kind of image.



Image Credit: GoodandBeautiful, CC BY-SA 2.0

Resulting image: virtual, upright, reduced

Convex Mirror

Any surface converging rays because light rays will come together at the focus. There are a couple different configurations that are important.

Object Between Focus and Center

Resulting image: real, inverted, reduced

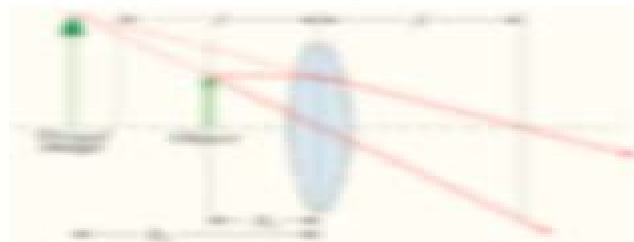


Image Credit: Jordon, CC BY-SA 4.0

Convex Lens

Any surface is diverging rays because the light rays will diverge after passing through the lens. Diverging lenses always form a virtual, upright, diminished image.



Image Credit: GoodandBeautiful, CC BY-SA 2.0

Object Beyond Focus

Resulting image: virtual, upright, magnified

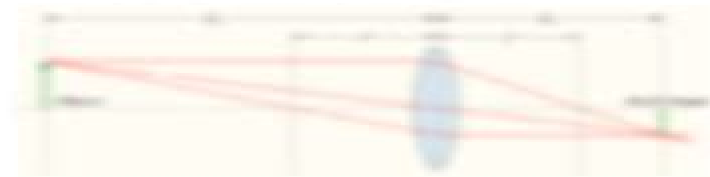


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Snell's Equation

Note: The Snell's Equation shown here is actually an approximation that assumes the rays to the eye and to the lens are small.

Snell's law:

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

n = index of refraction

θ = angle from normal

Snell's equation:

$$\frac{1}{f} = (n - 1) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

f = focal length

R = radius of curvature

$$\frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$$

d_o = distance to object

d_i = distance to image

Notes

Optics Study Guide

Hemang Doshi



Optics Study Guide:

Optics For Dummies Galen C. Duree, Jr.,2011-08-02 The easy way to shed light on Optics In general terms optics is the science of light More specifically optics is a branch of physics that describes the behavior and properties of light including visible infrared and ultraviolet and the interaction of light with matter Optics For Dummies gives you an approachable introduction to optical science methods and applications You ll get plain English explanations of the nature of light and optical effects reflection refraction and diffraction color dispersion optical devices industrial medical and military applications as well as laser light fundamentals Tracks a typical undergraduate optics course Detailed explanations of concepts and summaries of equations Valuable tips for study from college professors If you re taking an optics course for your major in physics or engineering let Optics For Dummies shed light on the subject and help you succeed *Self-study Manual on Optical Radiation Measurements* Fred Edwin Nicodemus,1977 *Physics 534 Study Guide for Optics* Gil

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