

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 Lens

Resulting image: real, inverted, reduced

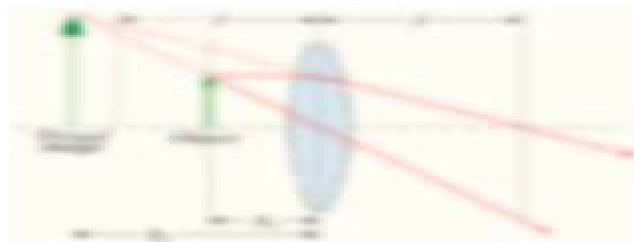


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Convex Lens

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

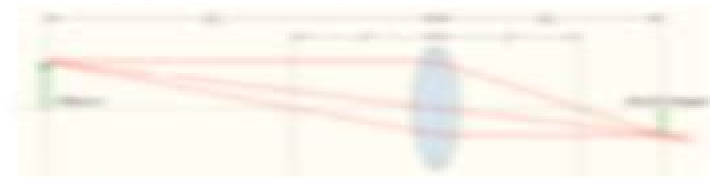


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Snell's Law

Note: The Snell's Law equation shown here is actually an approximation that assumes the rays are close to the normal.

Snell's Law:

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

n = index of refraction

θ = angle from normal

Snell's Law 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

Physics Optics Study Guide

MR. NN OJHA



Physics Optics Study Guide:

Photonics Abdul Al-Azzawi, 2017-12-19 Since the invention of the laser our fascination with the photon has led to one of the most dynamic and rapidly growing fields of technology An explosion of new materials devices and applications makes it more important than ever to stay current with the latest advances Surveying the field from fundamental concepts to state of the art developments Photonics Principles and Practices builds a comprehensive understanding of the theoretical and practical aspects of photonics from the basics of light waves to fiber optics and lasers Providing self contained coverage and using a consistent approach the author leads you step by step through each topic Each skillfully crafted chapter first explores the theoretical concepts of each topic and then demonstrates how these principles apply to real world applications by guiding you through experimental cases illuminated with numerous illustrations Coverage is divided into six broad sections systematically working through light optics waves and diffraction optical fibers fiber optics testing and laboratory safety A complete glossary useful appendices and a thorough list of references round out the presentation The text also includes a 16 page insert containing 28 full color illustrations Containing several topics presented for the first time in book form Photonics Principles and Practices is simply the most modern comprehensive and hands on text in the field **Study Guide with ActivPhysics** Alan Van Heuvelen, Richard Wolfson, Jay M. Pasachoff, 1999 **Resources in Education**, 1996 **Pathology** Speedy Publishing, 2014-08-20 Pathology is the study of infectious diseases their origins and possible cures A study guide on pathology would be helpful to anyone studying this subject or simply looking to learn more about diseases and pathology The study guide would give simple explanations of the many different types of pathology such as cytopathology dermatopathology and forensic pathology Pathology as a career is connected to bio medical science and would give advice and information on how to enter one of these fields and become a pathologist **Peterson's Annual Guides/graduate Study** Peterson's Guides, Inc, 1982 *The Teaching of Djwhal Khul 9* Tatiana Danina, 2014-07-06 Ideas for this book were transferred by the Himalayan Teacher Djwhal Khul Here we talk about issues of thermodynamics And first of all we will explain what in our view a physical concept of temperature is In physics the concept of temperature refers to a substance But in reality the temperature is a unique natural phenomenon Temperature is like temperament Esoteric information transmitted Himalayan Masters helps us to understand the essence of this process We wish you an enthralling reading **The Optical Journal and Review of Optometry. ...**, 1922 *Monomode Fiber-Optic Design* Donald G. Baker, 2012-12-06 Fiber optics is a transmission technique that uses electrical signals to modulate a light source and thereby produce an optical signal proportional to the electrical signal These optical signals contain information that is transmitted via a glass waveguide to a light sensitive receiver Fiber optics has a distinct advantage over copper networks for some applications The objective of this book is to explore monomode as opposed to multimode applications of fiber optics to local area networks LANs which have become a rather important aspect of this technology because of the ever increasing growth of LANs Monomode fiber optics

requires the use of coherent light sources such as laser diodes YAGs and HeNe lasers to name just a few It has some distinct advantages over multimode that this text will investigate in a cursory manner The author s previous book on multimode fiber optics Fiber Optic Design and Applications published by Reston would be helpful but not necessary to augment this text Monomode or single mode fiber optics is the present direction of the state of the art because of its superior performance Since a few problems existed that limited the growth of monomode technology at the time this book was being written several sections of the text will be devoted to examining the shortcomings as well as the performance advantages of this technology

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