



When an object is dropped in still water, the circular wave fronts that are produced move out from the contact point over the two-dimensional surface.

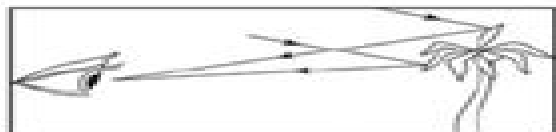


A light source emits light uniformly in all directions of the three-dimensional world. The wave fronts are spherical, and the direction of motion of the wave is perpendicular to the wave front. This straight line path shown by the arrow is called a ray. Depicting light as rays in ray diagrams provides a method to explain the images formed by mirrors and lenses.

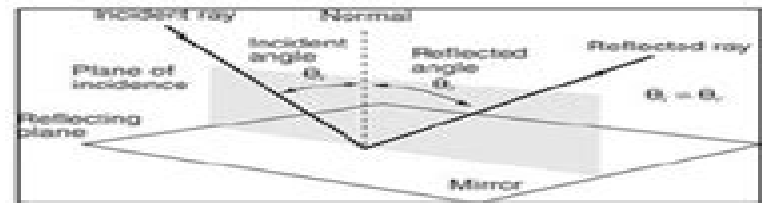
Far from the source, the curvature of the wave front is small, so the wave front appears to be a plane. Then, the light rays will be nearly parallel. Rays from the sun are considered to be parallel when reaching the earth.

THE LAW OF REFLECTION

Most visible objects are seen by reflected light. There are few natural sources of light, such as the sun, stars, and a flame; other sources are man-made, such as electric lights. For an object to be visible, light from a source is reflected off the object into our eyes (except in the special case of phosphors). In Figure 2, the light is coming from the sun, parallel due to the distance of the source. The light reflects off the object and travels in straight lines to the viewer. Through experience, the viewer has learned to extend the reflected rays entering the eye back to locate the object.



Light strikes a mirror and is reflected. The original ray is called the incident ray, and after reflection, it is called the reflected ray. The angles of the incident and reflected rays are always measured from the normal. The normal is a line perpendicular to the surface at the point where the incident ray reflects. The incident ray, reflected ray, and normal all lie in the same plane perpendicular to the reflecting surface, known as the plane of incidence. The angle measured from the incoming ray to the normal is termed the incident angle. The angle measured from the outgoing ray to the normal is called the reflected angle. The law of reflection states that the angle of incidence equals the angle of reflection. This law applies to all reflecting surfaces.



Light undergoes either diffuse or regular reflection.

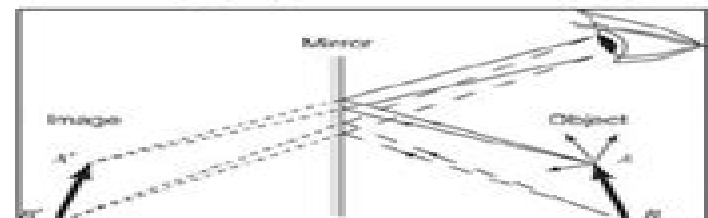


(a) Regular reflection. (b) Diffuse reflection

Diffuse reflection occurs when light reflects from a rough surface. Regular reflection is reflection from a smooth surface, such as a mirror. The reflected rays are scattered in diffuse reflection. This scattering is because the local direction of the normal to the surface is different for the different rays. By contrast, in regular reflection, the reflected light rays are orderly because each local region of the surface has a normal in the same direction.

PLANE MIRRORS

Light rays are coming from a source and reflecting off each point of the object (AB) in all directions. For simplicity, only a few of the rays are drawn. The rays spread upon leaving the object, and then each ray reflects from the mirror according to the law of reflection. The eye extends back the diverging reflected rays to see an image behind the mirror. An image formed in this manner by extending back the reflected diverging rays is called a virtual image.



A virtual image cannot be projected on a screen. The light does not physically come together, but rather, the eye (or camera) interprets the diverging rays as originating from an image behind the mirror. Due to the law of reflection, the image formed by a plane mirror is the same distance behind the mirror as the object is in front of the mirror.

Geometric Optics Study Guide And Review

RC Schank



Geometric Optics Study Guide And Review:

A Practical Guide to Experimental Geometrical Optics Yuriy A. Garbovskiy, Anatoliy V. Glushchenko, 2017-12-28 A concise yet deep introduction to experimental geometrical optics this book begins with fundamental concepts and then develops the practical skills and research techniques routinely used in modern laboratories Suitable for students researchers and optical engineers this accessible text teaches readers how to build their own optical laboratory and to design and perform optical experiments It uses a hands on approach which fills a gap between theory based textbooks and laboratory manuals allowing the reader to develop their practical skills in this interdisciplinary field and also explores the ways in which this knowledge can be applied to the design and production of commercial optical devices Including supplementary online resources to help readers track and evaluate their experimental results this text is the ideal companion for anyone with a practical interest in experimental geometrical optics

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Hypersymplectic manifolds Anti self dual conformal structures in neutral signature and integrable systems Neutral Kahler surfaces and geometric optics Geometry and dynamics of the Einstein universe Essential conformal structures and conformal transformations in pseudo Riemannian geometry The causal hierarchy of spacetimes Geodesics in pseudo Riemannian manifolds Lorentzian symmetric spaces in supergravity Generalized geometries in supergravity Einstein metrics with Killing leaves The book is addressed to advanced students as well as to researchers in differential geometry global analysis general relativity and string theory It shows essential differences between the geometry on manifolds with positive definite metrics and on those with indefinite metrics and highlights the interesting new geometric phenomena which naturally arise in the indefinite metric case The reader finds a description of the present state of the art in the field as well as open problems which can stimulate further research **Applied Mechanics Reviews** ,1969 *Reviews in Plasmonics 2015* Chris D. Geddes,2016-01-22 *Reviews in Plasmonics 2015* the second volume of the new book series from Springer serves as a comprehensive collection of current trends and emerging hot topics in the field of Plasmonics and closely related disciplines It summarizes the year s progress in surface plasmon phenomena and its applications with authoritative analytical reviews in sufficient detail to be attractive to professional researchers yet also appealing to the wider audience of scientists in related disciplines of Plasmonics *Reviews in Plasmonics* offers an essential source of reference material for any lab working in the Plasmonics field and related areas All academics bench scientists and industry professionals wishing to take advantage of the latest and greatest in the continuously emerging field of Plasmonics will find it an invaluable resource **Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed.** Stanley A. Williams,1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning **Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2** Stanley A. Williams,1978 **Readers' Guide to Periodical Literature** Anna Lorraine Guthrie,1915 An author subject index to selected general interest periodicals of reference value in libraries *21st Century Nanoscience - A Handbook* Klaus D. Sattler,2020-11-26 *21st Century Nanoscience A Handbook* Nanophotonics Nanoelectronics and Nanoplasmonics Volume 6 will be the most comprehensive up to date large reference work for the field of nanoscience *Handbook of Nanophysics* by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This sixth volume in a ten volume set covers nanophotonics nanoelectronics and nanoplasmonics Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook

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