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Geometrical optics,

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Optics, is a model of optics that describes light propagation in terms of rays. The ray in geometric optics is an abstraction useful for approximating the paths along which light propagates under certain circumstances..

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The simplifying assumptions of geometrical optics include that light rays: propagate in straight-line paths as they travel in a homogeneous medium

Geometrical optics
- *Wikipedia*

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When an object is

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Optics 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

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fronts are
spherical, and the
direction of motion
of the wave is
perpendicular to
the wave front, as
depicted in Figure .

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Geometrical optics, or ray optics, is a model of optics that describes light propagation in terms of rays. The ray in geometric optics is an abstraction useful for approximating the paths along

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which light
propagates under
certain
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(ii) Explain how a signal is transmitted along an optical fibre.

(iii) An optical fibre has an outer less dense layer of glass. What is the role of this layer of glass? (iv) An optical fibre is manufactured using glass of refractive index of

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1.5. Calculate the speed of light travelling through the optical fibre.

Speed of light in air
 $= 3.0 \times 10^8 \text{ m s}^{-1}$

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Kravtsov ...*

Engineering Optics.
The main goal of

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this note is to introduce engineers to the characteristics of light that can be used to accomplish a variety of engineering tasks especially in mechanical analysis at macro and micro scales. Topics covered includes:

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Geometrical
Optics(ray optics),
treated in the first
half of the class -
Emphasizes on
finding the light
path -Especially
useful for studying

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Optics is the study of the optical behavior of the system which has

- ◆ designing optical instruments,
- ◆ tracing the path of propagation in inhomogeneous media.

*Lecture Notes on
Geometrical Optics
(02/10/14)*

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Optics In
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terms of rays
geometrical optics
can be treated as
the limiting case of
wave optics when
size of obstacle is
very much large as
compared to
wavelength of light
under such
conditions the
wave nature of
light can be
ignored and light

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Optics can be assumed to
be travelling in
straight line
rectilinear

propagation optics
in engineering
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geometrical optics
in engineering
physics as

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adventure as

without difficulty as
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This monograph provides concise and clear coverage of modern ray theory without the need of complicated mathematics.
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coverage is given
to wave problems
in engineering
physics,
considering rays
and caustics as
physical objects.

Geometrical optics
is no longer
fashionable.
Research workers

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do not expect significant new discoveries to be made in this field of classical physics. Teachers avoid the subject because its use for many generations in arid mathematical exercises has robbed it of all freshness and stimulus, with the

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Optics in it no longer seems relevant to a modern physics course. There remains - and perhaps this has grown in recent year- the technical significance of geometrical optics. It provides the basis for the design of optical

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instruments for use in everyday life as well as for scientific and industrial purposes. This small book is intended to treat two aspects of the subject: the laws of geometrical optics and their application to the design of optical instruments. The

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Optics theory is not based on Snell's law of refraction but on a conservation law for the radiated energy. The subject can then be treated in a manner appropriate to contemporary physics: auxiliary geometrical parameters

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unnecessary and the singularities resulting from their use vanish. The laws of geometrical optics can be formulated much more simply and their physical significance is revealed more clearly. I have tried to present the

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satisfactory both to
teachers and to
workers in the
technical
applications of
optics. The content
has thus been
deliberately kept
within the limits of
a pocket book.

The field of optics
has become central

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developments in
medical imaging,
remote sensing,
communication,
micro- and
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and consumer
technology, among
other areas.

Applications of
optics are now
found in products
such as laser

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There is a growing
need for engineers
to understand

In a very short
time, lasers
advanced from
research interest to
increasingly useful,
commercially
available tools for

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the background in
theoretical physics
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With the advent of lasers, numerous applications of it such as optical information processing, holography, and optical communication have evolved. These applications have made the study of optics essential for

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concepts neces
sary for an
understanding of
many of these
applications. The
book has grown out

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Optics lectures given at the Master's level to students of applied optics at the Indian Institute of Technology, New Delhi. Chapters 1-3 deal with geometrical optics, where we develop the theory behind the tracing of rays and calculation of aberrations. The

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formulas for aberrations are derived from first principles. We use the method involving Luneburg's treatment starting from Hamilton's equations since we believe that this method is easy to understand.

Chapters 4--8 discuss the more

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important aspects of contemporary physical optics, namely, diffraction, coherence, Fourier optics, and holography. The basis for discussion is the scalar wave equation. A number of applications of spatial frequency filtering and

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holography are
also discussed.

With the

availability of high-
power laser beams,
a large number of
nonlinear optical
phenomena have
been studied. Of
the various
nonlinear
phenomena, the
self-focusing (or
defocusing) of light

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beams due to the nonlinear dependence of the dielectric constant on intensity has received considerable attention. In Chapter 9 we discuss in detail the steady-state self-focusing of light beams.

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