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Summary of Chapter 23 • Light paths are called rays • Angle of reflection equals angle of incidence • Index of refraction: •Upon passing into a material with larger n, ray deflects toward the normal • Law of refraction (Snell's law):

• Total internal reflection critical angle:

### Chapter 23. Light - Geometric Optics

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### **Chapter 23-Light: Geometric Optics**

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Chapter 23- Light: Geometric Optics Chapter 23 LIGHT: GEOMETRIC OPTICS. Educators. Chapter Questions. 01:51. Problem 1 (I) When you look at yourself in a 60-cm-tall plane mirror, you see the same amount of your body whether you are close to the mirror or far away. (Try it and see.) Use ray diagrams to show why this should be true.

## LIGHT: GEOMETRIC OPTICS | Physics: Principles wit...

When light travels through any medium, its speed v < c, since c is the speed of light in a vacuum. However, the speed of light in air is  $\approx c = v \cdot 1$ . After the light enters the new medium (e.g. glass), its speed v 2 decreases Since the speed changes, the ray is bent and propagates through the second medium at a new angle: constant v v sin sin 1 2 ...

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## Chapter 23 - Light: Geometric Optics - Misconceptual ...

The Ray Model of Light Light very often travels in straight lines. We represent light using rays, which are straight lines emanating from an object. This is an idealization, but is very useful for

geometric optics. The Reflection of Light If a stone is dropped into a pond, circular waves emanate from the point where it landed.

#### **Light: Geometric Optics**

Chapter 23: Geometric Optics. Review Basic Geometry! Ray Approximation. • The rays are straight lines perpendicular to the wave fronts • With the ray approximation, we assume that a wave moving through a medium travels in a straight line in the direction of its rays.

#### **Chapter 23: Geometric Optics**

Chapter 23 Geometrical Optics - Chapter 23 Geometrical Optics When an narrow beam of light strikes a flat surface the angle of incidence is the angle an | Course Hero.

## Chapter 23 Geometrical Optics - Chapter 23 Geometrical ...

CHAPTER 23: Light: Geometric Optics Problems 23–2 Reflection; Plane Mirrors 4. (II) A person whose eyes are 1.68 m

above the floor stands 2.20 m in front of a vertical plane mirror whose bottom edge is 43 cm above the floor, Fig. 23-48. What is the horizontal distance x to the base

## CHAPTER 23: Light: Geometric Optics - millerSTEM

Chapter 23 (4)Light: Geometric Optics. Units of Chapter 23•The Ray Model of Light•Reflection; Image Formed by a Plane Mirror•Formation of Images by Spherical Mirrors•Index of Refraction•Refraction: Snell's Law.

## Chapter 4-23.pdf - Chapter 23(4 Light Geometric Optics ...

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### Giancoli 7th Edition, Chapter 23, Problem 4 | Giancoli Answers

Chapter 23: Light: Geometric Optics Solutions at end of Document 1) The angle of incidence A) must equal the

angle of reflection. B) is always less than the angle of reflection. C) is always greater than the angle of reflection. D) may be greater than, less than, or equal to the angle of reflection. 2) A plane mirror forms an image that is

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