

Ray Optics

Refraction

The phenomenon of change of path of light when it goes from one medium to another is called refraction.

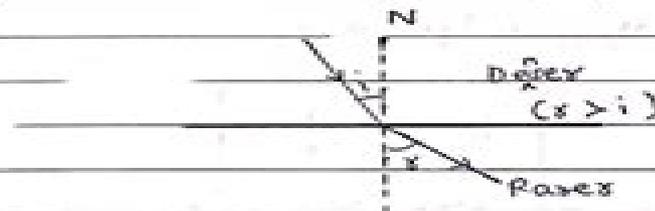
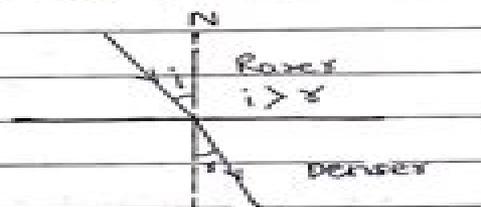
• Laws of refraction -

- 1) The incident ray, the refracted ray and the normal to the reflecting surface at the point of incidence, all lie in the same plane.
- 2) The ratio of sine of the angle of incidence to the sine of the angle of refraction is constant for the two given media.

$$\text{i.e. } \frac{\sin i}{\sin r} = \mu_b$$

The constant μ_b is called refractive index of medium b wrt medium a.

This law is also called Snell's law of refraction.



NOTE:-

- 1) If light travels from rarer to denser medium, then it bends towards the normal.
- 2) If light travels from denser to rarer medium, then it bends away from the normal.

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Anthony S. Fauci



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Table of Contents Class 12 Physics Ray Optics Notes Expoll

1. Understanding the eBook Class 12 Physics Ray Optics Notes Expoll
 - The Rise of Digital Reading Class 12 Physics Ray Optics Notes Expoll
 - Advantages of eBooks Over Traditional Books
2. Identifying Class 12 Physics Ray Optics Notes Expoll
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Class 12 Physics Ray Optics Notes Expoll
 - User-Friendly Interface
4. Exploring eBook Recommendations from Class 12 Physics Ray Optics Notes Expoll
 - Personalized Recommendations
 - Class 12 Physics Ray Optics Notes Expoll User Reviews and Ratings
 - Class 12 Physics Ray Optics Notes Expoll and Bestseller Lists
5. Accessing Class 12 Physics Ray Optics Notes Expoll Free and Paid eBooks
 - Class 12 Physics Ray Optics Notes Expoll Public Domain eBooks
 - Class 12 Physics Ray Optics Notes Expoll eBook Subscription Services
 - Class 12 Physics Ray Optics Notes Expoll Budget-Friendly Options
6. Navigating Class 12 Physics Ray Optics Notes Expoll eBook Formats

- ePub, PDF, MOBI, and More
 - Class 12 Physics Ray Optics Notes Expoll Compatibility with Devices
 - Class 12 Physics Ray Optics Notes Expoll Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Class 12 Physics Ray Optics Notes Expoll
 - Highlighting and Note-Taking Class 12 Physics Ray Optics Notes Expoll
 - Interactive Elements Class 12 Physics Ray Optics Notes Expoll
 8. Staying Engaged with Class 12 Physics Ray Optics Notes Expoll
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Class 12 Physics Ray Optics Notes Expoll
 9. Balancing eBooks and Physical Books Class 12 Physics Ray Optics Notes Expoll
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Class 12 Physics Ray Optics Notes Expoll
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Class 12 Physics Ray Optics Notes Expoll
 - Setting Reading Goals Class 12 Physics Ray Optics Notes Expoll
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Class 12 Physics Ray Optics Notes Expoll
 - Fact-Checking eBook Content of Class 12 Physics Ray Optics Notes Expoll
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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