

(4: Unit)

WAVE OPTICS

- A wavelet is the point of disturbance due to propagation of light.
- A wavefront is the locus of points having the same phase of oscillation.
- A line perpendicular to a wavefront is called a 'ray'.



Spherical W.F.



Cylindrical W.F. from a linear source



Plane W.F.

HUYGEN'S PRINCIPLE :- Find the shape of wavefront at any particular instance. The two postulate are -

- Each point on primary wave-f. acts as a source of secondary W.F. which travel in all direction with speed of light.
- The forward envelope or common tangent of secondary W.F. give shape of new wavefronts.



Reflection by Huygen's Principle



$\triangle MPN$ and $\triangle MQN$. $MN = MN$ common side
 $\angle P = \angle Q = 90^\circ$, $PN = MQ$ (dist. covered by light in same time)
 $\triangle MPN \cong \triangle MQN$ (by SAS)
 $30^\circ - i = 30^\circ - r$
 $i = r$

Refraction by Huygen's Principle



$PN = v_1 t$
 $MQ = v_2 t$

$$\mu_2 = \frac{\sin i}{\sin r} = \frac{PN/MN}{MQ/MN} = \frac{PN}{MQ}$$

$$\mu_2 = \frac{v_1 t}{v_2 t} = \frac{v_1}{v_2}$$

Interference of light $\rightarrow$ variation of intensity of light due to overlapping of two light waves.

Constructive - Resultant increase and bright light is formed.

Path diff. :- $\Delta x = 0, \lambda, 2\lambda, \dots, n\lambda$

Phase diff. :- $\Delta \phi = 0, 2\pi, 4\pi, 6\pi, \dots, 2n\pi$

Destructive - Resultant is minimum.

Destructive - Path diff. :- $\Delta x = \lambda/2, 3\lambda/2, \dots, (2n+1)\lambda/2$

Phase diff. :- $\Delta \phi = \pi, 3\pi, 5\pi, \dots, (2n+1)\pi$

$$\Delta \phi = \frac{2\pi}{\lambda} \times \Delta x$$

Young's double slit experiment (YDS) :- A monochromatic light beam is incident in double slit the pattern obtain on screen consist of alternate bright and dark bands called fringes.

Target Note 12 Pysics

Disha Experts



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targets set by the previous Government for recruiting more mathematics and physics teachers by 2014 *Lectures in Aerospace Medicine*. 1960- USAF School of Aerospace Medicine,1960 *The Army Lawyer* ,2013-08 Nuclear Science Abstracts ,1974 **Technical Reports Awareness Circular : TRAC.** ,1989 INIS Atomindex ,1988 **Proceedings of the Seventeenth LAMPF Users Group Meeting** ,1984 **TARGET JEE Advanced 2018 (Solved Papers 2006 - 2017 + 5 Mock Tests Papers 1 & 2) - 12th Edition** Disha Experts,2017-09-07 The book is updated with the newly introduced Matching cum Passage based questions as asked in JEE Advanced 2017 Paper 2 TARGET JEE Advanced 2018 Solved Papers 2006 2017 5 Mock Test Papers 1 The book includes 5 Mock tests for JEE Advanced along with detailed solutions designed on the latest pattern Paper 1 and Paper 2 The papers contain all the new variety of questions being asked in the new JEE Automatic Target Recognition ,1999 **Physics, Uspekhi** ,2004 *Target New Pattern CLAT 2022: 10 Mock Tests & 2 Solved Papers (2020 & 2021)* Disha Experts,2021-12-30 TARGET CLAT 2022 contains 10 Quality Mock Tests designed especially on the new Passage based Pattern of the CLAT exam The book also provides detailed solutions of past 2 years of CLAT 2020 to 2021 Each Mock Test contains 150 Passage based newly designed questions The solution to each and every question has been provided

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Table of Contents Target Note 12 Pysics

1. Understanding the eBook Target Note 12 Pysics
 - The Rise of Digital Reading Target Note 12 Pysics
 - Advantages of eBooks Over Traditional Books
2. Identifying Target Note 12 Pysics
 - 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 Target Note 12 Pysics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Target Note 12 Pysics
 - Personalized Recommendations
 - Target Note 12 Pysics User Reviews and Ratings
 - Target Note 12 Pysics and Bestseller Lists
5. Accessing Target Note 12 Pysics Free and Paid eBooks
 - Target Note 12 Pysics Public Domain eBooks
 - Target Note 12 Pysics eBook Subscription Services
 - Target Note 12 Pysics Budget-Friendly Options
6. Navigating Target Note 12 Pysics eBook Formats
 - ePub, PDF, MOBI, and More
 - Target Note 12 Pysics Compatibility with Devices
 - Target Note 12 Pysics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Target Note 12 Pysics
 - Highlighting and Note-Taking Target Note 12 Pysics
 - Interactive Elements Target Note 12 Pysics
8. Staying Engaged with Target Note 12 Pysics

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Target Note 12 Pysics
9. Balancing eBooks and Physical Books Target Note 12 Pysics
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Target Note 12 Pysics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Target Note 12 Pysics
- Setting Reading Goals Target Note 12 Pysics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Target Note 12 Pysics
- Fact-Checking eBook Content of Target Note 12 Pysics
 - 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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