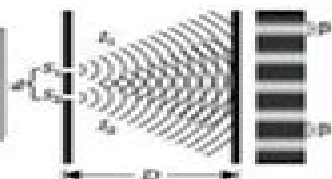


# WAVE OPTICS

## BRAIN MAP CLASS XII

### REFLECTION AND REFRACTION

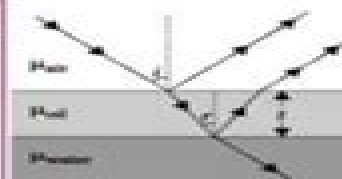
Law of reflection  $\angle i = \angle r$   
 & law of refraction  $\frac{\sin i}{\sin r} = \mu$   
 can be explained by Huygens wave theory.



### INTERFERENCE OF LIGHT

The superposition of two coherent waves resulting in a pattern of alternating dark and bright fringes of equal width.

- Position of bright fringes  $x_n = \frac{n\lambda D}{d}$
- Position of dark fringes  $x'_n = \frac{(2n-1)\lambda D}{2d}$
- Fringe width  $\beta = \frac{\lambda D}{d}$
- Ratio of slit width with intensity:  $\frac{w_1}{w_2} = \frac{I_1}{I_2} = \frac{a_1^2}{a_2^2}$



### ADDITION OF COHERENT WAVE

- Resultant intensity  
 $I_R = I_1 + I_2 + 2\sqrt{I_1 I_2} \cos \phi$   
 for bright fringes,  
 $I_{\max} = (\sqrt{I_1} + \sqrt{I_2})^2$  at  $\phi = 0^\circ, 2\pi, 4\pi, \dots$   
 for dark fringes,  
 $I_{\min} = (\sqrt{I_1} - \sqrt{I_2})^2$  at  $\phi = \pi, 3\pi, 5\pi, \dots$   
 for  $I_1 = I_2 = I_0$ :  $I_R = 4I_0 \cos^2 \frac{\phi}{2}$

### INTERFERENCE IN THIN FILM

- For reflected light  
 Maxima  $\rightarrow 2\mu t \cos r = (2n+1)\frac{\lambda}{2}$   
 Minima  $\rightarrow 2\mu t \cos r = n\lambda$   
 For transmitted light  
 Maxima  $\rightarrow 2\mu t \cos r = n\lambda$   
 Minima  $\rightarrow 2\mu t \cos r = (2n+1)\frac{\lambda}{2}$   
 Shift in fringe patterns  
 $\Delta x = \frac{\beta}{\lambda} (\mu - 1)t = \frac{D}{d} (\mu - 1)t$   
 ( $t$  = thickness of film,  $\mu$  = R.I. of the film)

### DIFFRACTION

- Single slit experiment  
 > Angular position of  $n^{\text{th}}$  minima,  $\theta_n = \frac{n\lambda}{d}$   
 > Angular position of  $n^{\text{th}}$  maxima,  $\theta_n = \frac{(2n+1)\lambda}{2d}$   
 > Width of central maximum  $\beta_c = 2\beta = \frac{2\lambda D}{d}$

### FRESNEL'S DISTANCE

- Ray optics as a limiting case of wave optics
- Diffraction at circular aperture  
 Linear spread,  $x = D\theta$   $\left\{ \theta = 1.22 \frac{\lambda}{d} \right\}$   
 Area spread,  $x^2 = (D\theta)^2$
- Fresnel's distance: Distance at which diffraction spread is equal to the size of aperture,  $D_f = \frac{d^2}{\lambda}$
- Size of Fresnel zone,  $d_f = \sqrt{\lambda D}$

### RESOLVING POWER (R.P.)

The ability to resolve the images of two nearby point objects distinctly.

- R.P. =  $\frac{1}{\text{Limit of resolution}}$
- R.P. of a microscope =  $\frac{1}{d} = \frac{2\mu \sin \theta}{\lambda}$   
 $\theta$  = Semi vertical angle subtended at objective.
- R.P. of a telescope =  $\frac{1}{\theta} = \frac{1.22\lambda}{D}$   
 $D$  = Diameter of objective lens of telescope.

### DOPPLER'S EFFECT

- Apparent frequency received during relative motion of source and observer  
 $\nu' = \nu \left( 1 - \frac{v}{c} \right)$  (red shift)  
 $\nu' = \nu \left( 1 + \frac{v}{c} \right)$  (blue shift)  
 Doppler shift:  $\Delta \lambda = \pm \frac{v}{c} \times \lambda$   
 $\Delta \lambda = \pm \frac{v}{c} \times \lambda \Rightarrow \lambda' - \lambda = \pm \frac{v}{c} \lambda$



### POLARISATION OF LIGHT

**Malus Law:** The intensity of transmitted light passed through an analyser is  
 $I = I_0 \cos^2 \theta$   
 ( $\theta$  = angle between transmission directions of polariser and analyser)

### POLARISATION BY REFLECTION

- Brewster's Law:** The tangent of polarising angle of incidence at which reflected light becomes completely plane polarised is numerically equal to refractive index of the medium  
 $\mu = \tan i_p$ ;  $i_p$  = Brewster's angle.  
 and  $i_p + r_p = 90^\circ$

# Physics Waves And Vibrations Notes

**Keith Barnham**



## Physics Waves And Vibrations Notes:

**Vibrations and Waves** Benjamin Crowell, 2000      **Introduction to Vibrations and Waves** H. John Pain, Patricia Rankin, 2015-01-20 Based on the successful multi edition book *The Physics of Vibrations and Waves* by John Pain the authors carry over the simplicity and logic of the approach taken in the original first edition with its focus on the patterns underlying and connecting so many aspects of physical behavior whilst bringing the subject up to date so it is relevant to teaching in the 21st century The transmission of energy by wave propagation is a key concept that has applications in almost every branch of physics with transmitting mediums essentially acting as a continuum of coupled oscillators The characterization of these simple oscillators in terms of three parameters related to the storage exchange and dissipation of energy forms the basis of this book The text moves naturally on from a discussion of basic concepts such as damped oscillations diffraction and interference to more advanced topics such as transmission lines and attenuation wave guides diffusion Fourier series and electromagnetic waves in dielectrics and conductors Throughout the text the emphasis on the underlying principles helps readers to develop their physics insight as an aid to problem solving This book provides undergraduate students of physics and engineering with the mathematical tools required for full mastery of the concepts With worked examples presented throughout the text as well as the Problem sets concluding each chapter this textbook will enable students to develop their skills and measure their understanding of each topic step by step A companion website is also available which includes solutions to chapter problems and PowerPoint slides Review of *The Physics of Vibrations and Waves* 6e This is an excellent textbook full of interesting material clearly explained and fully worthy of being studied by future contributors Journal of Sound and Vibration      *The Ear. Its Anatomy, Physiology, and Diseases. A Practical Treatise for the Use of Medical Students and Practitioners* Charles Henry Burnett, 2024-08-01 Reprint of the original first published in 1877      **The Physics of Vibrations and Waves** Herbert John Pain, 1983      **The Ear; Its Anatomy, Physiology, and Diseases** Charles Henry Burnett, 1877      *The Burning Answer* Keith Barnham, 2014-05-15 Our civilisation stands on the brink of catastrophe Our thirst for energy has led to threats from global warming nuclear disaster and conflict in oil rich countries We are running out of options Solar power Keith Barnham argues is the answer In this eye opening book he shows how a solar revolution is developing based on one of Einstein's lesser known discoveries one that gave us laptop computers and mobile phones An accessible guide to renewable technology and a hard hitting critique of the arguments of solar sceptics *The Burning Answer* outlines a future in which the fuel for electric cars will be generated on our rooftops It is above all an impassioned call to arms to join the solar revolution before it's too late      **The Shock and Vibration Digest**, 1979      *The American Journal of Science* Mrs. Gambold, 1897      *The American Journal of Science*, 1897 The American journal of science and arts      A *Cyclopædia of the Physical Sciences* John Pringle Nichol, 1860      *The Year-book of Facts in Science and Art*, 1876      *Air Force (Selection of Airmen - Technical Cadre)*,      *The Year-book of Facts in Science and the Arts for 1875* Charles W.

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the coast in havana cuba from the mouth of havana harbor in old havana along the north side of the centro habana neighborhood and the vedado neighborhood ending at the mouth of the almendares river new businesses

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