

Wave Optics

★ Huygen's Principal of Secondary waves

$$i = r$$

i - incident angle
 r - reflected angle
 n_{12} - Refractive index

$$\frac{\sin i}{\sin r} = \frac{v_1}{v_2} = \text{constant}$$

$$n_{21} = \frac{v_1}{v_2} = \frac{\text{velocity of light in first medium}}{\text{velocity of light in second medium}}$$

$$v = \frac{c}{n}$$

n - refractive index
 c - velocity of light

$$\frac{\lambda_1}{\lambda_2} = \frac{v_1}{v_2} = n_{21}$$

★ Optical Path

$$c \times t = nd$$

d - distance

★ Doppler Effect

change in frequency

$$\frac{\Delta \nu}{\nu} = - \frac{v_{\text{radical}}}{c}$$

velocity

★ Refractive index of water relative to air

$$n = \frac{\lambda}{\lambda_w} \quad \text{OR} \quad \lambda_w = \frac{\lambda}{n}$$

★ Interference

$$I = I_1 + I_2 + 2\sqrt{I_1 I_2} \cos \phi$$

★ Positions of Bright fringes

$$x = n \frac{D\lambda}{d}$$

★ Fringe Width

$$\beta = \frac{D\lambda}{d}$$

★ Positions of Dark fringes

$$x = \left[\frac{n-1}{2} \right] \frac{D\lambda}{d}$$

★ Angular Fringe - Width

OR

★ Angular Path difference

$$\theta = \frac{\lambda}{d}$$

★ Displacement of fringe

$$x_0 = \frac{D(n-1)t}{d}$$

★ thickness of plate

$$t = \frac{x_0 \lambda}{D(n-1)}$$

★ Diffraction of light due to a single slit

$$e \sin \theta = \pm m \lambda$$

$$e \sin \theta = (2m+1) \frac{\lambda}{2}$$

★ Angular width of Central maximum

$$2\theta = \frac{2\lambda}{e}$$

★ Linear width of Central maximum

$$2x = \frac{2\lambda \times f}{e}$$

★ Resolving power of Telescope

$$1.22 \frac{\lambda}{d}$$

★ Fresnel distance

$$Z_f = \frac{e^2}{\lambda}$$

★ Resolving power of microscope

$$\frac{1.22 \lambda}{2n \sin \alpha}$$

★ Brewster's law

$$\mu = \tan i_p$$

★ Coherent and non-coherent addition of waves

1. $I \propto a^2$ I - Intensity, a - amplitude

2. Coherent waves : No phase difference

displacement $y = 2a \cos \omega t$

Amplitude $2a$

Intensity $I = 4I_0$ where $I_0 \propto a^2$

The Wave Study Questions

Marcel A. Müller



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web exponential equations not requiring logarithms date period solve each equation $1 \ 42 \ x \ 3 \ 1 \ 2 \ 53 \ 2x \ 5 \ x \ 3 \ 31 \ 2x \ 243 \ 4 \ 32a \ 3 \ a \ 5 \ 43x \ 2 \ 1 \ 6 \ 42p \ 4 \ 2p \ 1 \ 7 \ 6 \ 2a \ 62 \ 3a \ 8 \ 22x \ 2 \ 23x \ 9 \ 63m \ 6 \ m \ 6 \ 2m \ 10 \ 2x \ 2x \ 2 \ 2x \ 11 \ 10 \ 3x \ 10 \ x \ 1 \ 10$

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web aug 31 2020 exponential equations not requiring logarithms we learn how to solve exponential equations not requiring logarithms this is a great introduction into expon

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web key steps in solving exponential equations without logarithms so that if $\text{latex } \text{large } b \text{ color blue } m \ b \text{ color red } n \text{ latex}$ in other words if you can express the exponential equations to have the same base on both sides then it is okay to set their powers or exponents equal to each other

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web the key to solving exponential equations lies in logarithms let's take a closer look by working through some examples

solving exponential equations of the form $a \cdot b^x = d$ let's solve $5 \cdot 2^x = 240$ to solve for x we must first isolate the exponential part to do this divide both sides by 5 as shown below