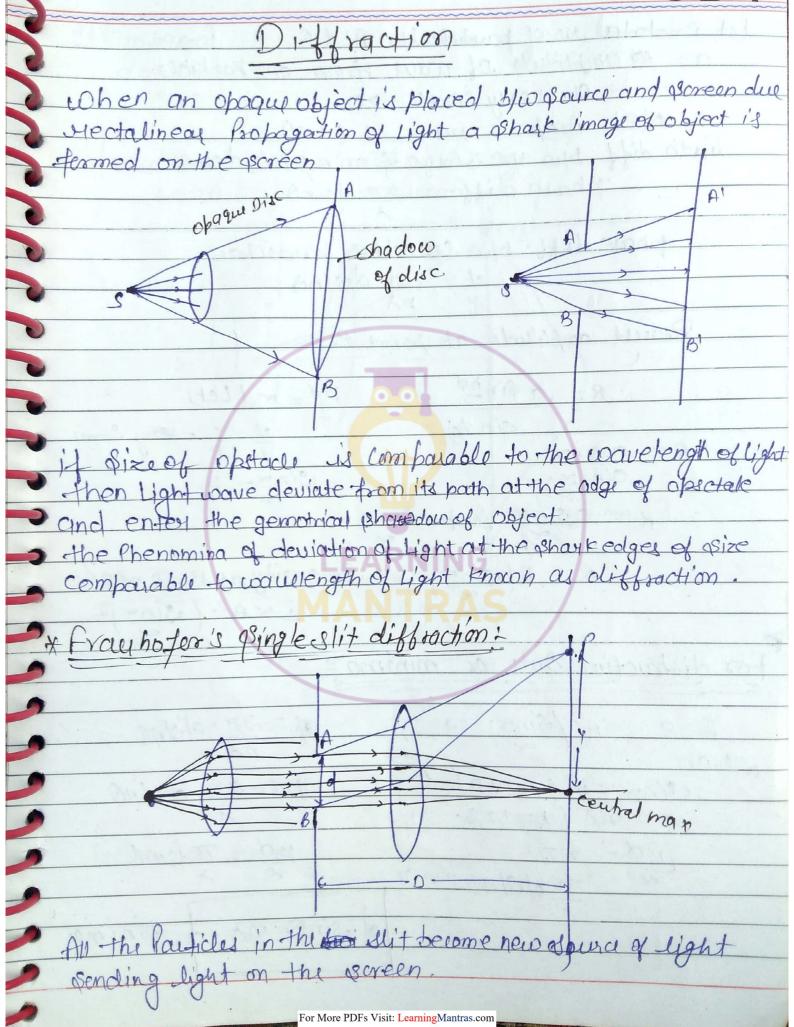


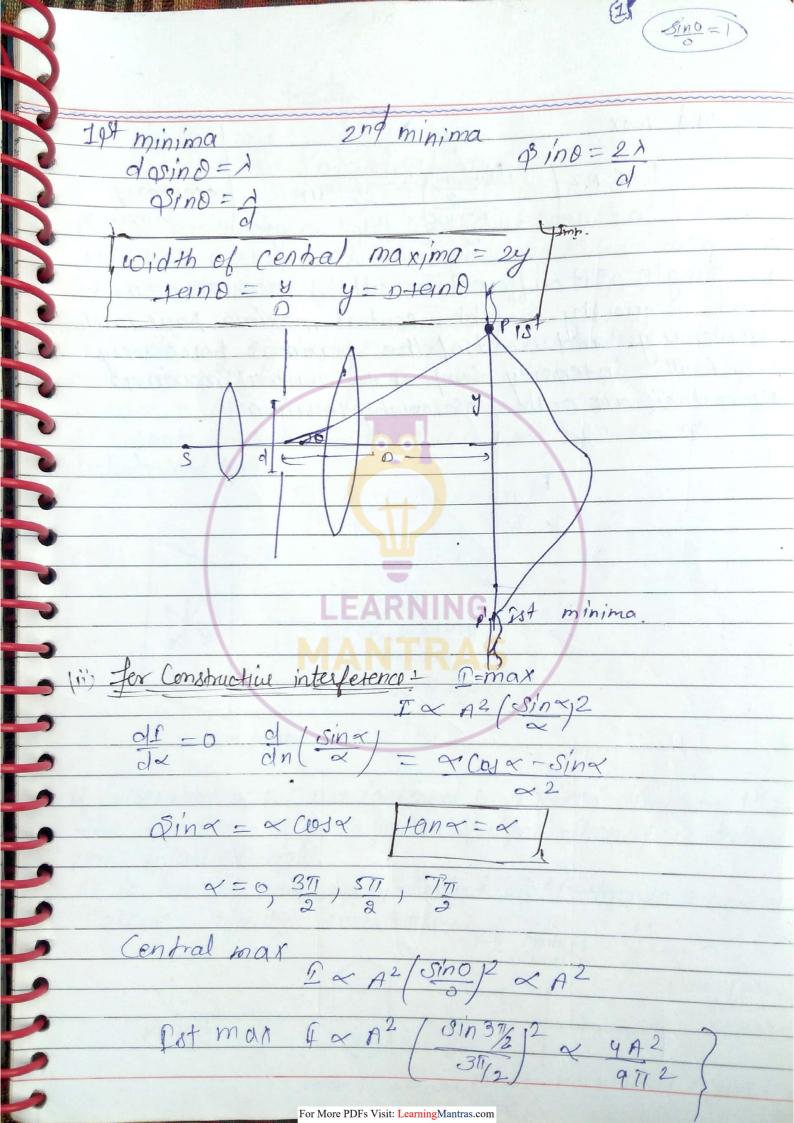
Handwritten Notes On Differaction







Let P=total NO. Of harding
Let p=total No. of particles by A & B P-,00
a - on amplitude of wave from one particle
Net Ambi
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
DIO TIC HAIN From A d a - d CINI
phase diff. = 2T dsind
phase diff. b/10 conectius particles
$\phi = 2\pi d \sin \theta$
Rescelt amplitude at point P.
$R = \alpha \sin \frac{p\phi}{2} \qquad p\phi = \kappa (let)$
R = Cising Sin \$12 = 7 - Very Small
Sin (x)
R = CISINY - pasiny
$R = A(sin x)$ Intensity at $P I x R^2$
$\Omega \prec A^2 \left(\sin \gamma \right)^2$
For distructive ont or minima?
D = 12/2/22 -2 N = 9T -1.
$\mathcal{I}=0 A^2/Sinq^2=0 \mathcal{J}=2\pi dsno$
$Sin = 0 (x \neq 0) \qquad p \neq = 2\pi dsin0$ $x = n\pi (n = 1, 2, 3) \qquad \lambda$
$\alpha = 917 (1 = 1,2,3)$
PØ= nTI pØ= TIdsino
I dsino=nT
d sino=nx + minima
a sind minima



width.
2nd max
I < A2/ Sin5/1 /2 us2 secondary
2 2 9 mi ma
2577 2577) Mapping.
In single stit differentian all the maxima's aux
not equally bright central maxima have maximum Dintensity and west of the maxima's have very a small intensity compare to central maxima.
Ordenstay and west of the province's bould very
Of mall intensity Company to some had morning.
Mana than and and I assumed to central married
Hence these are could precountry maxima's.
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