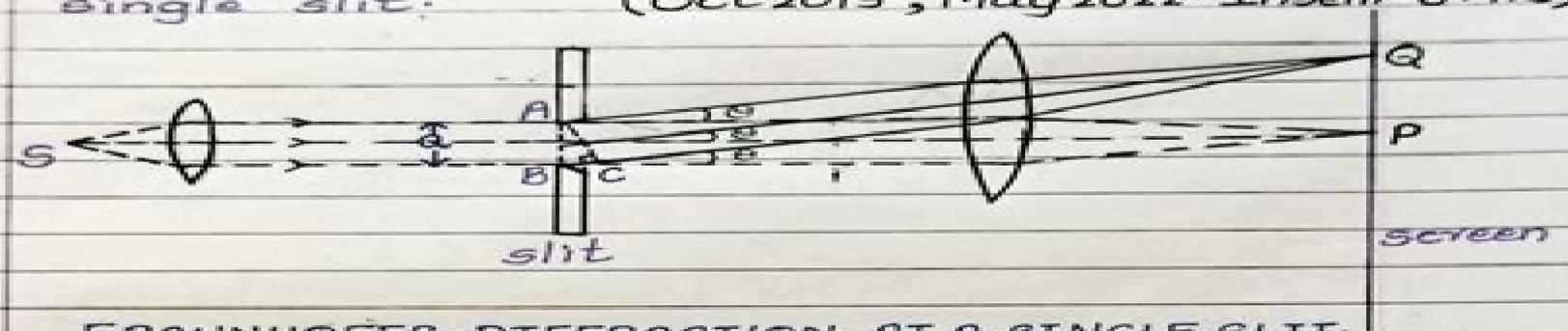


Q.2 Derive an expression for resultant amplitude and resultant intensity between the diffracted waves in Fraunhofer diffraction due to a single slit. (Oct 2019, May 2022 - Insem - 6 Mks)



FRAUNHOFER DIFFRACTION AT A SINGLE SLIT.

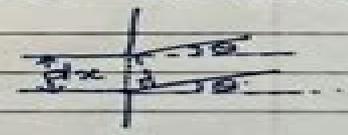
Let AB be a single slit of width 'a' which is illuminated by a monochromatic light of wavelength λ .

Point P: The secondary waves travelling normally to the slit are focussed at point P where intensity is maximum.

Point Q: The secondary waves diffracted at an angle ' θ ' are focussed at point Q on the screen.

To find the resultant at point Q, the slit AB is divided into 'N' slits each of width 'dx'.

$\therefore a = dx_1 + dx_2 + dx_3 + \dots + dx_N$



\therefore Path difference between rays from individual slits = $dx \sin \theta$
and Phase difference = $\frac{2\pi}{\lambda} (dx \sin \theta)$

\therefore Total path difference between rays from top and bottom edge of slit = $a \sin \theta$ --- (1)

and total phase difference (ϕ) = $\frac{2\pi}{\lambda} (a \sin \theta)$ --- (2)

continued \rightarrow

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Applied Mechanics Reviews ,1976 **Japanese Journal of Applied Physics** ,1983 From X-rays to DNA W. David Lee,Jeffrey Drazen,Phillip A. Sharp,Robert S. Langer,2014 An argument that technology accelerates biological discovery with case studies ranging from chromosome discovery with early microscopes to how DNA replicates using radioisotope labels Engineering has been an essential collaborator in biological research and breakthroughs in biology are often enabled by technological advances Decoding the double helix structure of DNA for example only became possible after significant advances in such technologies as X ray diffraction and gel electrophoresis Diagnosis and treatment of tuberculosis improved as new technologies including the stethoscope the microscope and the X ray developed These engineering breakthroughs take place away from the biology lab and many years may elapse before the technology becomes available to biologists In this book David Lee argues for concurrent engineering the convergence of engineering and biological research as a means to accelerate the pace of biological discovery and its application to diagnosis and treatment He presents extensive case studies and introduces a metric to measure the time between technological development and biological discovery Investigating a series of major biological discoveries that range from pasteurization to electron microscopy Lee finds that it took an average of forty years for the necessary technology to become available for laboratory use Lee calls for new approaches to research and funding to encourage a tighter more collaborative coupling of engineering and biology Only then he argues will we see the rapid advances in the life sciences that are critically needed for life saving diagnosis and treatment JJAP ,1983
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