

Physics 267: Problem #4

A plane wave travels in the x direction and is incident on an opaque plane with two slits that are parallel to the z -axis. The slits are located equal distance from the x -axis and are separated by a distance d . Just before (to the left) of the lower slit, there is a thin piece of glass, thickness L , index of refraction n . A screen is located far to the right of the slits. Find the angles of intensity maxima.