

Key Concepts – Interference & Diffraction

- The total phase angle of a wave is the quantity $\theta = (kx - \omega t + \phi)$
- Two different waves, with angles θ_1 and θ_2 will interfere
 constructively if $\Delta\theta = 2\pi * m$
 destructively if $\Delta\theta = 2\pi * (m + 1/2)$ where $m = \text{any integer } 0, 1, 2, \dots$
- Different examples of 2-wave **interference**:

Type	Constructive Maxima	Destructive Minima
2 sources at diff. positions x (in air)	$\Delta\theta = 2\pi * m$, so $k\Delta x = 2\pi * m$ $\Delta x = \lambda m$	$\Delta\theta = 2\pi * (m + 1/2)$, so $k\Delta x = 2\pi * (m + 1/2)$ $\Delta x = \lambda (m + 1/2)$
1 source, split by 2 slits $d = \text{slit separation}$	approximate $\Delta x = d \sin \alpha \dots$ $d \sin \alpha = \lambda m$	$d \sin \alpha = \lambda (m + 1/2)$
1 source, split by reflection from a thin film Case A: film rests on a larger n material (eg soap on water, oil on water) Case B: film rests on a smaller n material (eg soap film in air, water film on ice)	$\Delta\theta = 2\pi * m$ $\Delta\theta = \Delta kx = 2\pi * m$ $k_{\text{film}} * 2t = 2\pi * m$ Convert k_{film} to get $2t = \lambda_{\text{film}} m$, or $n_{\text{film}} * 2t = \lambda_{\text{air}} m$ now $\Delta\theta$ has an additional phase $\Delta\phi = \pi$ $\Delta\theta = \Delta(kx + \phi) = 2\pi * m$, $k_{\text{film}} * 2t + \pi = 2\pi m$ Move π to right hand side... $k_{\text{film}} * 2t = 2\pi * (m + 1/2)$ Convert k_{film} to get $n_{\text{film}} * 2t = \lambda_{\text{air}} (m + 1/2)$	$\Delta\theta = 2\pi * (m + 1/2)$ $\Delta\theta = \Delta kx = 2\pi * (m + 1/2)$ $k_{\text{film}} * 2t = 2\pi * (m + 1/2)$ Convert k_{film} to get $2t = \lambda_{\text{film}} (m + 1/2)$, or $n_{\text{film}} * 2t = \lambda_{\text{air}} (m + 1/2)$ $\Delta\theta = \Delta(kx + \phi) = 2\pi * (m + 1/2)$ $k_{\text{film}} * 2t + \pi = 2\pi * (m + 1/2)$ Move π to right hand side... $k_{\text{film}} * 2t = 2\pi * m$ Convert k_{film} to get $n_{\text{film}} * 2t = \lambda_{\text{air}} m$

- Different examples of 1-wave **diffraction**:

Type	Constructive Maxima	Destructive Minima
single slit diffraction $a = \text{slit width}$		approximate $\Delta x = a/2 \sin \alpha \dots$ $a \sin \alpha = \lambda m$
multi-slit diffraction "grating" $d = \text{slit separation}$	approximate $\Delta x = d \sin \alpha \dots$ $d \sin \alpha = \lambda m$	

Interference And Diffraction Concept Review Answer Key

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