

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 <i>larger</i> n material (eg soap on water, oil on water) Case B: film rests on a <i>smaller</i> 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 $\Delta x = d \sin \alpha \dots$ $d \sin \alpha = \lambda * m$	

3diffraction And Interference Review Answers

Albert A Gayle



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Fundamentals of Physics, Chapters 33-37 David Halliday, Robert Resnick, Jearl Walker, 2010-03 Physics for Scientists and Engineers Paul A. Tipler, Gene Mosca, 2004 This is an extensively revised edition of Paul Tipler's standard text for calculus based introductory physics courses. It includes entirely new artwork, updated examples, and new pedagogical features. There is also an online instructor's resource manual to support the text. *Introductory Physics for the Life Sciences: (Volume 2)* David V. Guerra, 2023-06-06 This textbook provides an accessible introduction to physics for undergraduate students in the life sciences, including those majoring in all branches of biology, biochemistry, and psychology, and students working on pre-professional programs such as pre-medical, pre-dental, and physical therapy. The text is geared for the algebra-based physics course, often named College Physics, in the United States. The order of topics studied in this volume requires students to first understand a concept such as the conservation of energy, momentum, voltage, or current; the change in a quantity such as entropy; or the rules of ray and wave optics. Then students apply these concepts to solve problems in the areas of thermodynamics, electrical circuit, optics, and atomic and nuclear physics. Throughout the text, these quantity-based applications are used to understand systems that are critical to the understanding of biological systems, such as the entropy of evolution, the signal down the axon of a nerve cell, the optics of the eye, and the operation of a laser. This is part 2 of a two-volume set; volume 1 introduced students to the methods of mechanics and applied these problem-solving techniques to explicitly biological topics such as the sedimentation rate of red blood cells in haemoglobin, the torques and forces on a bacterium employing a flagellum to propel itself through a viscous fluid, and the terminal velocity of a protein moving in a gel electrophoresis device. Key features: Organized and centered around analysis techniques, not traditional mechanics; and E-M Presents a unified approach in a different order, meaning that the same laboratory equipment and demonstrations can be used when teaching the course. Demonstrates to students that the analysis and concepts they are learning are critical to the understanding of biological systems. **Upco's Review of Physics** Herbert H. Gottlieb, 1986-12

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