

WAVE OPTICS QUESTIONS

Question 1: In a double-slit experiment, the slits are illuminated with coherent light of wavelength λ . A thin film of variable thickness $t(x) = t_0 \sin(\omega x)$ with a refractive index n is placed in front of one slit, where ω is a constant and x is the position along the slit. Derive an expression for the resultant intensity at a point on the screen, considering the varying phase shift introduced by the film.

Question 2: A laser beam of wavelength 600 nm is incident at an angle of 30° to the normal of a diffraction grating with 20,000 lines per cm. Determine the angles at which the second-order and third-order diffraction maxima are observed, and explain why higher-order maxima may or may not appear.

Question 3: In a Fresnel biprism experiment, the refractive index of the prism is slightly temperature-dependent and varies as $n(T) = n_0 + \alpha(T - T_0)$. If the temperature in the room increases by 20°C , derive how the fringe shift on the screen changes as a function of the temperature coefficient α , initial refractive index n_0 , and other given parameters.

Question 4: A double-slit interference pattern is observed using light of wavelength 500 nm. When a small rectangular obstacle of width w is placed equidistant between the two slits, it blocks a portion of the light and modifies the pattern on the screen. If the width of the obstacle is half the distance between the fringes, describe the changes in the visibility and position of the fringes.

Question 5: Consider a thin wedge-shaped air film formed between two glass plates with a small angle θ between them. If monochromatic light of wavelength λ is incident from above, derive an expression for the position of the dark fringes as a function of the distance x from the edge of contact. Additionally, if one of the glass plates is slowly lifted, describe the motion of the fringes observed.

Question 1: In Young's double-slit experiment, the distance between the slits is 0.5 mm, and the screen is placed 2 m away from the slits. The wavelength of the monochromatic light used is 600 nm. If one of the slits is covered with a thin film of thickness $1.5 \mu\text{m}$ and refractive index 1.5, determine the shift in the central maximum.

Multiple Choice Questions On Wave And Optics

Bekir Karaoglu



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