Optics 5th Edition Hecht Solutions Manual

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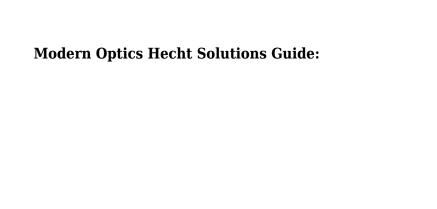
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Chapter 4 Solutions

- 4.1 E_m ≪ V E_m/r = KV E_m/r; thus V K/r must be unitless, and so K has units of (length)⁻¹. The only quantity unaccounted for is λ and so we conclude that K = λ⁻², and I_c/I_c ≪ K² ≪ λ⁻⁴.
- 4.2 The degree of Rayleigh scattering is proportional to 1/λ.*. But λ_v = 1.45λ_v and so 1/λ_v* = (1/1.45λ_v)* hence violet is scattered (1.45)* = 4.42 times more intensely than yellow. The ratio of yellow to violet is 22.6%.
- 4.3 The sinusoids represent the field, in this case the E-field of the disturbance. The wavefront is a surface of constant phase and it meets each sinusoid at the same point (same phase) in its development. The outward radial lines are rays and they are everywhere perpendicular to the wavefronts.
- 4.4 (a) On the left-hand side are the inertial, drag force, and elastic force terms; on the right-hand side is the electric driving force.
 (b) x₀(-∞² + ∞² + tyes) = (q. E₀/m₁) exp(ix), forming the absolute square of both sides yields x₀²[(m₀² es²)² + γ²ω²] = (q. E₀/m₁)² and x₀ follows by division and taking the square root. (c) As for α₀, divide the imaginary parts of both sides of the first equation above, namely x₀yω = (q₀E₀/m₀) sinα₀, by the real parts, x (ω² es²) = (q. E₀/m₀) to obtain α = tan⁻¹[yω/(ω² es²)].
 α ranges continuously from 0 to π/2 to π.
- 4.5 (a) The phase angle is retarded by an amount (n∆y2π/λ.) Δy2π/λ. or (n 1)Δyω/c. Thus E_n = E_n exp iω[t (n 1)Δy/c y/c] or E_n = E_n exp[-iω(n 1)Δy/c] exp iω(t y/c). (b) Since ' ≈ 1 + x for e small x, if n = 1 or Δy □ 1, exp[-iω(n 1)Δy/c] = 1 iω(n 1)Δy/c.
 - small x, if n = 1 or $\Delta y \square 1$, $\exp[-i\omega(n-1)\Delta y/c] = 1 i\omega(n-1)\Delta y/c$ and since $\exp(-i\pi/2) = -i$, $E_p = E_n + \omega(n-1)\Delta y(E_n/c) \exp(-i\pi/2)$.
- 4.6 $\sin 58^\circ = x/(5.0 \text{ m}), x = 4.2 \text{ m}.$
- 4.7 The statue is 16 m from the point of incidence, and since the ray-triangles are similar, 4 m: 16 m as 3 m: Y and Y = 12 m.

Modern Optics Hecht Solutions Guide

David Baud



Whispering the Secrets of Language: An Emotional Quest through Modern Optics Hecht Solutions Guide

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