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Chapter 4 Solutions

- 4.1 $E_{\text{rms}} \propto V E_{\text{rms}}/r = KV E_{\text{rms}}/r$; thus $V K/r$ must be unitless, and so K has units of $(\text{length})^{-2}$. The only quantity unaccounted for is λ and so we conclude that $K = \lambda^{-2}$, and $I_e/I_o \propto K^2 \propto \lambda^{-4}$.
- 4.2 The degree of Rayleigh scattering is proportional to $1/\lambda^4$. But $\lambda_v = 1.45\lambda_y$ and so $1/\lambda_v^4 = (1/1.45\lambda_y)^4$ hence violet is scattered $(1.45)^4 = 4.42$ 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) $x_o(-\omega^2 + \alpha_0^2 + i\gamma\omega) = (q E_o/m_e)\exp(i\alpha)$, forming the absolute square of both sides yields $x_o^2[(\alpha_0^2 - \omega^2)^2 + \gamma^2\omega^2] = (q E_o/m_e)^2$ and x_o follows by division and taking the square root. (c) As for α_o , divide the imaginary parts of both sides of the first equation above, namely $x_o\gamma\omega = (q_e E_o/m_e)\sin\alpha_o$, by the real parts, $x_o(\omega^2 - \alpha_0^2) = (q E_o/m_e)$ to obtain $\alpha = \tan^{-1}[\gamma\omega/(\omega^2 - \alpha_0^2)]$.
 α ranges continuously from 0 to $\pi/2$ to π .
- 4.5 (a) The phase angle is retarded by an amount $(n\Delta y/2\pi/\lambda_o) - \Delta y/2\pi/\lambda_o$ or $(n-1)\Delta y\omega/c$. Thus $E_p = E_o \exp i\omega[t - (n-1)\Delta y/c - y/c]$ or $E_p = E_o \exp[-i\omega(n-1)\Delta y/c] \exp i\omega(t - y/c)$. (b) Since $\epsilon' = 1 + \chi$ for small χ , if $n = 1$ or $\Delta y \ll 1$, $\exp[-i\omega(n-1)\Delta y/c] = 1 - i\omega(n-1)\Delta y/c$ and since $\exp(-i\pi/2) = -i$, $E_p = E_o + \omega(n-1)\Delta y(E_o/c)\exp(-i\pi/2)$.
- 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 $Y = 12 \text{ m}$.

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