

Optics 5th Edition Hecht Solutions Manual

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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 $I_e/I_s \propto K^2 \propto \lambda^{-4}$.
- 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) $x_0(-\omega^2 + \alpha_0^2 + i\gamma\omega) = (q E_0/m) \exp(i\alpha)$, forming the absolute square of both sides yields $x_0^2[(\alpha_0^2 - \omega^2)^2 + \gamma^2\omega^2] = (q E_0/m)^2$ and x_0 follows by division and taking the square root. (c) As for α_0 , divide the imaginary parts of both sides of the first equation above, namely $x_0\gamma\omega = (q_e E_0/m_e) \sin\alpha$, by the real parts, $x_0(\omega^2 - \alpha_0^2) = (q E_0/m)$ 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 $(n\Delta y/2\pi/\lambda) - \Delta y/2\pi/\lambda$, or $(n-1)\Delta y\omega/c$. Thus $E_p = E_0 \exp i\omega[t - (n-1)\Delta y/c - y/c]$ or $E_p = E_0 \exp[-i\omega(n-1)\Delta y/c] \exp i\omega(t - y/c)$. (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 $\exp(-i\pi/2) = -i$, $E_p = E_0 + \omega(n-1)\Delta y(E_0/c) \exp(-i\pi/2)$.
- 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 $Y = 12 \text{ m}$.

Modern Optics Hecht Solutions Guide

Christian G. Meyer



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Modern Optics B. D. Guenther, 1990

Advanced Optical and Wireless Communications Systems Ivan B. Djordjevic, 2017-12-28 This textbook introduces the advanced topics of i wireless communications ii free space optical FSO communications iii indoor optical wireless IR communications and iv fiber optics communications and presents these different types of communication systems in a unified fashion for better practical use Fundamental concepts such as propagation principles modulation formats channel coding diversity principles MIMO signal processing multicarrier modulation equalization adaptive modulation and coding detection principles and software defined transmission are first described and then followed up with a detailed look at each particular system The book is self contained and structured to provide straightforward guidance to readers looking to capture fundamentals and gain theoretical and practical knowledge about wireless communications optical communications and fiber optics communications all which can be readily applied in studies research and practical applications The textbook is intended for an upper undergraduate or graduate level course in optical communication It features problems an appendix with all background material needed and homework

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