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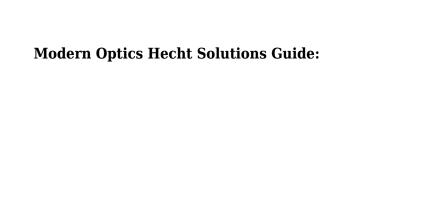
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#### **Chapter 4 Solutions**

- 4.1 E<sub>m</sub> ≪ V E<sub>m</sub>/r = KV E<sub>m</sub>/r; thus V K/r must be unitless, and so K has units of (length)<sup>-1</sup>. The only quantity unaccounted for is λ and so we conclude that K = λ<sup>-2</sup>, and I<sub>c</sub>/I<sub>c</sub> ≪ K<sup>2</sup> ≪ λ<sup>-4</sup>.
- 4.2 The degree of Rayleigh scattering is proportional to 1/λ, \*. But λ<sub>v</sub> = 1.45λ<sub>v</sub> and so 1/λ<sub>v</sub> = (1/1.45λ<sub>v</sub>)\* 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) x<sub>0</sub>(-∞<sup>2</sup> + ∞<sup>2</sup> + tyes) = (q. E<sub>0</sub>/m<sub>1</sub>) exp(ix), forming the absolute square of both sides yields x<sub>0</sub><sup>2</sup>[(m<sub>0</sub><sup>2</sup> es<sup>2</sup>)<sup>2</sup> + γ<sup>2</sup>ω<sup>2</sup>] = (q. E<sub>0</sub>/m<sub>1</sub>)<sup>2</sup> and x<sub>0</sub> follows by division and taking the square root. (c) As for α<sub>0</sub>, divide the imaginary parts of both sides of the first equation above, namely x<sub>0</sub>yω = (q<sub>0</sub>E<sub>0</sub>/m<sub>0</sub>) sinα<sub>0</sub>, by the real parts, x (ω<sup>2</sup> es<sup>2</sup>) = (q. E<sub>0</sub>/m<sub>0</sub>) to obtain α = tan<sup>-1</sup>[yω/(ω<sup>2</sup> es<sup>2</sup>)].
  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<sub>p</sub> = E<sub>q</sub> exp iω[t (n-1)Δy/c y/c] or E<sub>p</sub> = E<sub>q</sub> 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  $\Delta y \sqcup 1$ ,  $\exp[-i\omega(n-1)\Delta y/c] = 1 i\omega(n-1)\Delta y/c$ and since  $\exp(-i\pi/2) = -i$ ,  $E_p = E_u + \omega(n-1)\Delta y(E_u/c) \exp(-i\pi/2)$ .
- 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**

**Huangqi Zhang** 



## Modern Optics Hecht Solutions Guide Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Modern Optics Hecht Solutions Guide**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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