

Chapter Study Guide

Teacher Notes and Answers

1. 4.07×10^{16} m
2. a. 3.33×10^{-5} s
b. 1.00×10^{-4} m
3. 3.84×10^8 m
4. 3.00×10^{11} Hz
5. Diffuse reflection: (nonshiny surfaces) table top, floor, walls, car paint, posters (answers will vary)
Specular reflection: metallic surfaces, water, mirrors (answers will vary)
6. a. Check student drawings for accuracy.
b. B is 4 m from A horizontally, C is 2 m below B vertically
c. D is 2 m below A vertically, E coincides with C
d. they will overlap the existing images or objects
7. a. 9.00 cm
b. $p = 30.0$ cm; $q = 12.9$ cm; real; inverted; 2.58 cm tall
 $p = 24.0$ cm; $q = 14.4$ cm; real; inverted; 3.60 cm tall
 $p = 18.0$ cm; $q = 18.0$ cm; real; inverted; 6.00 cm tall
 $p = 12.0$ cm; $q = 36.0$ cm; real; inverted; 2.00 cm tall
 $p = 6.0$ cm; $q = -18$ cm; virtual; upright; 18 cm tall
8. $p = 30.0$ cm; $q = -6.92$ cm; virtual; upright; 1.38 cm tall
 $p = 24.0$ cm; $q = -6.55$ cm; virtual; upright; 1.64 cm tall
 $p = 18.0$ cm; $q = -6.00$ cm; virtual; upright; 2.00 cm tall
 $p = 12.0$ cm; $q = -5.14$ cm; virtual; upright; 2.57 cm tall
 $p = 6.0$ cm; $q = -3.6$ cm; virtual; upright; 3.6 cm tall

Light Study Guide Answers For Physics

Paul A. Tipler, Gene Mosca



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The Project Physics Course: Light and electromagnetism Harvard Project Physics, 1975

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Stewart,1894 **London University Guide** ,1903 **The Metaphysics of Light in Hexaemeral Literature** Isidoros C. Katsos,2023 This volume critically re evaluates the received interpretation of the nature of light in the ancient sources The view that vision had priority over light is rejected in favour of a luminocentric reading of philosophical and theological cosmology in late antiquity Resources in Education ,1994 **Physics for Scientists and Engineers** Paul A. Tipler,Gene Mosca,2004 This is an extensively revised edition of Paul Tipler s standard text for calculus based introductory physics courses It includes entirely new artwork updated examples and new pedagogical features There is also an online instructor s resource manual to support the text

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