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Snell's law worksheet answers

Reading a free preview page 2 does not appear in this preview. To continue to enjoy our website, we ask you to confirm your identity as a person. Thank you very much for your cooperation. Sample Problems for Snell's Law Snell's Snell Act describes how light bends when you travel from one medium to another. Mathematically, it is referred to as where n_i represents the index of refraction in the middle i , and n_t represents the angle the light makes with the normal in the middle t . Sample Problem 1: Light travels from the air to a fiber optic with a refractive index of 1.44. (a) In which direction does the light bend? (b) If the impact angle at the end of the fiber is 22° , what is the refractive angle within the fiber? (c) Draw the path of light as it changes the media. Solution: (a) As light travels from a rarer area (lower n) to a denser area (higher n), it will bend towards normal. (b) We will identify air as medium 1 and fiber as medium 2. Thus, $n_1 = 1.00$, $n_2 = 1.44$, and $\theta_1 = 22^\circ$. Law Snell then becomes $(1.00) \sin 22^\circ = 1.44 \sin \theta_2$. $\sin \theta_2 = (1.00/1.44) \sin 22^\circ = 0.260$ $\theta_2 = \sin^{-1}(0.260) = 15^\circ$. c) The path of light is shown in the following image. Sample Problem 2: Light traveling through a fiber optic ($n = 1.44$) reaches the end of the fiber and exits into the air. (a) If the angle of impact at the end of the fiber is 30° , what is the refractive angle outside the fiber? (b) How would your answer be different if the impact angle was 50° ? Solution: (a) As light now travels from fiber to air, we will call fiber material 1 and air material 2. Thus, $n_1 = 1.44$, $n_2 = 1.00$, and $\theta_1 = 30^\circ$. Law Snell then becomes $(1.44) \sin 30^\circ = 1.00 \sin \theta_2$. $\sin \theta_2 = (1.44/1.00) \sin 30^\circ = 1.44(0.500) = 0.720$ $\theta_2 = \sin^{-1}(0.720) = 46^\circ$. Notice that this time, the refractive angle is greater than the impact angle. The light bends away from normal as it enters a rarer material. (b) Replacing the impact angle with 50° gives $\sin \theta_2 = (1.44/1.00) \sin 50^\circ = 1.44(0.766) = 1.103$ This equality cannot be achieved, so light cannot come out of the fiber under these conditions. The situation in part (b) is an example of overall internal thinking, discussed on the next content page. Practice Exercises Online Reading At-Home Assignments Click Next or Prev to go to sample problems for other topics. Copyright © 1999-2004 Doris Jeanne Wagner and Rensselaer Polytechnic Institute. All rights reserved ID: 445F6

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