

Concept-Development Practice Page

27-2

Polarization



The amplitude of a light wave has magnitude and direction and can be represented by a vector. Polarized light vibrates in a single direction and is represented by a single vector. To the left, the single vector represents vertically polarized light. The vibrations of non-polarized light are equal in all directions. There are as many vertical components as horizontal components. The pair of perpendicular vectors to the right represents non-polarized light.



1. In the sketch below, non-polarized light from a flashlight strikes a pair of polarizing filters.



- a. Light is transmitted by a pair of polarizing filters when their axes are (aligned) (crossed at right angles)

and light is blocked when their axes are (aligned) (crossed at right angles).

- b. Transmitted light is polarized in a direction (the same as) (different than) the polarization axis of the filter.

2. Consider the transmission of light through a pair of polarizing filters with polarization axes at 45° to each other. Although in practice the polarizing filters are one atop the other, we show them spread out side by side below. From left to right: (a) Non-polarized light is represented by its horizontal and vertical components. (b) These components strike filter A. (c) The vertical component is transmitted, and (d) falls upon filter B. This vertical component is not aligned with the polarization axis of filter B, but it has a component that is — component t; (e) which is transmitted.



- a. The amount of light that gets through Filter B, compared to the amount that gets through Filter A is (more) (less) (the same).

- b. The component perpendicular to t that falls on Filter B is (also transmitted) (absorbed).

Concept Development 38 1 Answers

Michael Hoelscher



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