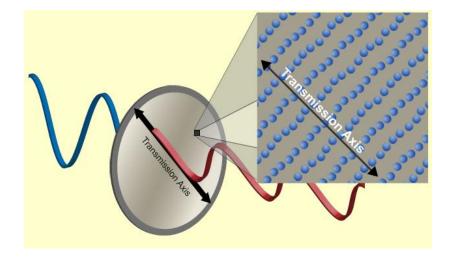
Clicker Question





The molecular structure of a polarizer causes the component of the *E* field perpendicular to the Transmission Axis to be absorbed.

Suppose we have a beam traveling in the +z – direction. At t = 0 and z = 0, the electric field is aligned along the positive x – axis and has a magnitude equal to E_o

What is the component of E_o along a direction in the x - y plane that makes an angle of θ with respect to the x – axis?

A) $E_o \sin \theta$ B) $E_o \cos \theta$ C) 0 D) $E_o / \sin \theta$ E) $E_o / \cos \theta$