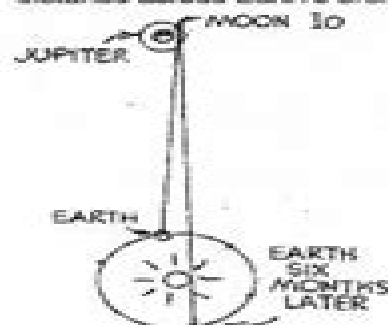


CONCEPTUAL *Physics* PRACTICE PAGE

Chapter 26 Properties of Light Speed, Wavelength, and Frequency

1. The first investigation that led to a determination of the speed of light was performed in about 1675 by the Danish astronomer Oleas Roemer. He made careful measurements of the period of Io, a moon about the planet Jupiter, and was surprised to find an irregularity in Io's observed period. While Earth was moving away from Jupiter, the measured periods were slightly longer than average. While Earth approached Jupiter, they were shorter than average. Roemer estimated that the cumulative discrepancy amounted to about 16.5 minutes. Later interpretations showed that what occurs is that light takes about 16.5 minutes to travel the extra 300,000,000-km distance across Earth's orbit. Aha! We have enough information to calculate the speed of light!



- Write a formula for speed in terms of the distance traveled and the time spent traveling that distance.

- Using Roemer's data, and changing 16.5 minutes to seconds, calculate the speed of light.

Study Figure 26.3 in your textbook and answer the following:

- Which has the longer wavelengths? [radio waves] [light waves]
 - Which has the longer wavelengths? [light waves] [gamma waves]
 - Which has the higher frequencies? [ultraviolet waves] [infrared waves]
 - Which has the higher frequencies? [ultraviolet waves] [gamma rays]

LIGHT IS THE ONLY THING WE SEE!



Carefully study the section "Transparent Materials" in your textbook and answer the following:

- Exactly what do vibrating electrons emit?

 - When ultraviolet light shines on glass, what does it do to electrons in the glass structure?

 - When energetic electrons in the glass structure vibrate against neighboring atoms, what happens to the energy of vibration?

 - What happens to the energy of a vibrating electron that does not collide with neighboring atoms?

PHYSICS 2 YEAR



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