

Extra Testing Section - (Experiments 1,2,3) - Part II

Evidence for wave nature of light:

1. Interference experiments have revealed that light exhibits wave-like behavior in situations:
 - a. double-slit interference
 - b. thin film interference
 - c. diffraction gratings
2. Huygens' principle can explain interference. Huygens is fundamental to light because light can be described as a series of wavelets.
3. Light exhibits particle-wave duality in that it has both wave-like and particle-like properties. For example, light can be described as an electromagnetic wave or as a stream of photons.

Evidence for particle nature of light:

1. Photoelectric effect: light propagates as waves
 - a. Without sufficient frequencies of light, electrons are not ejected from metals even exposed
 - b. Wave frequency is fundamental
 - c. Wave frequency is fundamental to photoelectric effect
 - d. Wave frequency is fundamental to photoelectric effect
2. Wave frequency is fundamental to photoelectric effect
3. Wave frequency is fundamental to photoelectric effect

Explain what the photoelectric effect is. It is the emission of electrons from a metal surface when light of a certain frequency strikes it.
Explain how the photoelectric effect supports the idea of light as particles. The energy of the light is proportional to the frequency of the light. The energy of the light is proportional to the frequency of the light.
Explain how the photoelectric effect supports the idea of light as waves. The energy of the light is proportional to the frequency of the light. The energy of the light is proportional to the frequency of the light.

4. The wave theory of light cannot explain the photoelectric effect

Note Taking Guide Episode 1302 Part 1

Ying Liu



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