

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
2. Huygens' principle can explain interference, diffraction, and polarization. Light passing through a slit creates a wave that has the same wavelength as the incident wave.
3. Light exhibits particle-like behavior in how it interacts with matter. For example, how it is absorbed and re-emitted by atoms. The continuous energy distribution of waves and quantized energy levels of matter.

Evidence for particle nature of light:

1. Photoelectric effect: light propagates as waves
 - a. Without sufficient frequencies of light, electrons are not ejected from a metallic surface regardless
 - b. Energy transfers as local phenomena
 - c. Electrons transfer the full energy of photons as individual events as opposed to average
 - d. Energy transfers as quanta
2. Compton Scattering results in Red Shift

Consider what-if light propagates as waves and interacts as particles as photons as individual events

Without this photoelectric effect, electrons in atoms are unstable. There is transfer of energy from atoms when light is absorbed

Lighter light exhibits more wave like behavior but lighter energy photons depend on the frequency of light and the frequency

3. The wave theory cannot explain the photoelectric effect

Note Taking Episode 1302 Part 1 Answer Key

Mike Jess



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