

DIFFRACTION

Meaning: Diffraction is the bending and spreading of waves, such as light or sound, when they encounter an obstacle or a slit that is similar in size to their wavelength.

1. Diffraction occurs when waves encounter an obstacle or a slit that is comparable in size to their wavelength.
2. The pattern of light and dark fringes observed on the screen is a direct result of diffraction.
3. Understanding diffraction is crucial for applications in both optics and acoustics.
4. Scientists often use diffraction gratings to analyze the spectral composition of light.
5. The phenomenon of diffraction can explain why sound waves can be heard around corners.

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