

Diffraction Grating Experiment Viva Questions With Answers

Apr 17, 2026 · Diffraction, the spreading of waves around obstacles. Diffraction takes place with sound; with electromagnetic radiation, such as light, X-rays, and gamma rays; and with very small moving ... May 28, 2024 · Diffraction is a fundamental concept in the study of waves and optics that describes how waves bend around obstacles and spread out as they pass through narrow openings. It is a ... Diffraction is the deviation of waves from straight-line propagation due to an obstacle or through an aperture, without any change in their energy. Jul 23, 2025 · Diffraction describes a specialized case of light scattering in which an object with regularly repeating features (such as a diffraction grating) produces an orderly diffraction of light in a diffraction ... The bending of a wave around the edges of an opening or an obstacle is called diffraction. Diffraction is a wave characteristic that occurs for all types of waves. If diffraction is observed for a phenomenon, it ... May 27, 2025 · Diffraction is the phenomenon where waves bend, spread, or interfere when they encounter an obstacle or pass through a narrow opening. The effect is subtle yet profound. Mar 9, 2026 · In astronomy, the diffraction limit explains why bigger telescopes see sharper images. Doubling the diameter of a mirror cuts the minimum resolvable angle in half, revealing twice as much ... The phenomenon of diffraction results when a wave interacts with an object or aperture whose size is comparable to the wavelength of the wave interacting with it. Diffraction can send a wave around the edges of an opening or other obstacle. A single slit produces an interference pattern characterized by a broad central maximum with narrower and dimmer maxima to ... Nov 17, 2022 · Diffraction is the bending or spreading of light waves around an obstacle. The obstacle can be an aperture or slit whose size is approximately the same as the wavelength of light.

4: *Diffraction - Physics LibreTexts*

Diffraction: Definition, Physics, Equation, and Formula

Diffraction Explained | Wave, Interference & Patterns

Diffraction | Definition, Examples, Types, & Facts | Britannica

What Is Diffraction? The Physics of Spreading Waves

Diffraction

Diffraction - Wikipedia

What Is the Diffraction Limit and How Does It Work?

[Diffraction of light - GeeksforGeeks](#)

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