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 A laser is a device that generates light by a process called STIMULATED EMISSION. The acronym LASER stands for Light Amplification by Stimulated Emission of Radiation 3.

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B.Tech sem I Engineering Physics U-II Chapter 2-LASER. 1. LASER Light Amplification by Stimulated Emission of Radiation. 3. Objectives… Characteristics or Properties of Laser Light • Coherence • High Intensity • High directionality • High monochromaticity Laser light is highly powerful and it is capable of propagating over long distances and it is not easily absorbed by water.

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Conditions for Laser Action. Let an atom in the excited state be stimulated by a photon of right energy so that atom makes stimulated emission. Two coherent photons are obtained. These two coherent photons. if stimulate two atoms in the exited state to make emission then four coherent photons are produced.

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Lasers. Laser is an acronym for Light Amplification by Stimulated Emission of Radiation. Laser is a highly "monochromatic coherent beam of light of very high intensity". In 1960 Mainmann built the first "LASER" using Ruby as active medium. Interaction of Radiation with matter.

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a laser based on the solid-state laser material Ruby. Figure 7.1: Theodore Maiman with the first Ruby Laser in 1960 and a cross sectional view of the first device [4]. The first HeNe-Laser, a gas laser followed in 1961. It is a gas laser built by Ali Javan at MIT, with a wavelength of 632.8 nm and a linewidth of only 10kHz.

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