

Engineering Laser Physics Notes

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LASER stands for light Amplification by Stimulated Emission of Radiation. The theoretical basis for the development of laser was provided by Albert Einstein in 1917. In 1960, the first laser device was developed by T.H. Mainmann. 1.

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First, a laser photon encounters an atom that has been raised to an excited state, just like in the case of spontaneous emission. The photon then causes the atom to decay to its ground state and emit another photon identical to the incoming photon. This is the second step in the creation of a laser beam.

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UNIT-VII` - Engineering Physics Notes 12. Lasers: Characteristics of Lasers, Spontaneous and Stimulated Emission of Radiation, Meta-stableState, Population Inversion, Lasing Action, Einstein's Coefficients and Relation between them, Ruby Laser, Helium-Neon Laser, Carbon Dioxide Laser, Semiconductor Diode Laser, Applications of Lasers. 13.

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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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Application of Lasers... Laser beam is used to measure distances of sun, moon, stars and satellites very accurately. It can be used for measuring velocity of light, to study spectrum of matters, to

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study Raman effect. It can be used for increasing speed and efficiency of computer. It is used for welding. It is used in biomedical science. It is used in 3D photography.

B.Tech sem I Engineering Physics U-II Chapter 2-LASER

Note, a similar analysis can be done for the three level laser operating according to the scheme shown in Figure 7.5 (b). Then the relaxation rate from level 3 to level 2, which is now the upper laser level has to be fast. But in addition the optical pumping must be so strong that essentially all the ground state levels are depleted.

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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 excited state to make emission then four coherent photons are produced.

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laser. • 1960: LASER coined by Gould. • 1960: First laser (Ruby) by Maiman. • 1961: First HeNe laser, then rapid invention of most lasers ... • 1977: Gordon Gould awarded the patent for the laser. Early History of Lasers

Presented at WITS May 2006

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PHY 1001: ENGINEERING PHYSICS Dept. of Physics, MIT Manipal 2 Fig. 1.1 Section of infinite wave

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train and a wave train of finite length • Laser light is highly coherent (coherent length of few centimeters to meters).

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