

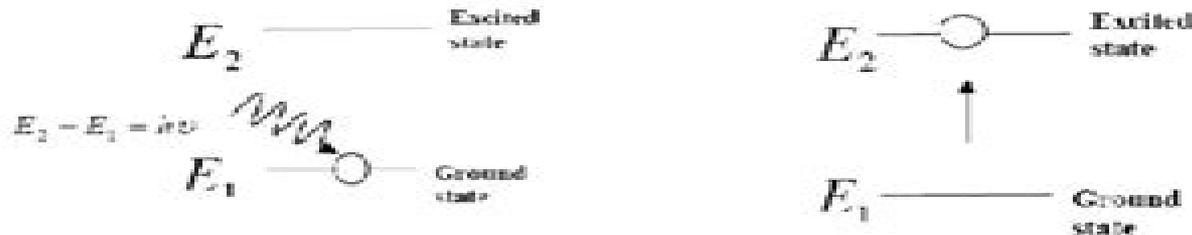
# Lasers- Engineering Physics

## ➤ Laser

Light Amplification by Stimulated Emission of Radiation (LASER) is a term that refers to how light is amplified when it is stimulated. Albert Einstein supplied the theoretical platform for the creation of the laser in 1917. T.H. Mainmann invented the first laser apparatus in 1960.

## ➤ Stimulated absorption

Let  $E_1$  and  $E_2$  be the energies of an atom's ground and excited states, respectively. If a photon with the energy  $E_2 - E_1 = h\nu$  combines with an atom in the ground state, the atom will be stimulated from the ground state  $E_1$  to the excited state  $E_2$ . This is known as stimulated absorption.



The number of atoms present in the lowest energy level, and also the energy density photons, determine the rate of stimulated absorption. Quantity of atoms in the ground state at the stimulated absorption level Photon density is a measure of how many photons are present in a given area.

## ➤ Spontaneous emission

Bohr proposed the idea of spontaneous emission. Let  $E_1$  and  $E_2$  be the energies of an atom's ground and excited states, respectively. If a photon with the energy  $E_2 - E_1 = h\nu$  combines with an atom in the ground state, the atom will be excited from the ground state  $E_1$  to the excited state  $E_2$ .

# Engineering Physics Laser Notes

**J Rink**



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