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Emission Spontaneous emission: Spontaneous emission is when an electron in a higher energy level drops down to a lower energy level and a photon is emitted with an ...

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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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□ The efficiency of ruby laser is very low because only green component of the pumping light is used while the rest of components are left unused. □ The laser output is not continuous but occurs in the form of pulses of microseconds duration. □ The defects due to crystalline imperfections are also present in this laser.

26.

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2-LASER

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light, the laser light is more monochromatic than that  
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An important class of solid-state lasers are semiconductor lasers. Depending on the semiconductor material used the emission wavelength can be further refined by using bandstructure engineering, 0.4  $\mu\text{m}$  (GaN) or 0.63-1.55  $\mu\text{m}$  (AlGaAs, InGaAs, InGaAsP) or 3-20  $\mu\text{m}$  (lead salt).

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