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Laser Basics

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Unit –I LASER Engineering Physics Introduction 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.

Unit –I LASER Engineering Physics
Laser notes pdf. 1. Subject: Engineering Physics (PHY-1) Common For All Branches Unit: 2.1 LASER Syllabus: Spontaneous and stimulated emissions, Laser action, characteristics of laser beam-concepts of coherence, He-Ne and semiconductor lasers (simple ideas), applications. Prepared By: www.kukworld.in Spontaneous and Stimulated 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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Concept of 3 And 4 Level Laser Notes for Engineering Physics 1st Year Optical amplification in the gain medium of a laser or laser amplifier arises from stimulated emission, where the input light induces transitions of laser-active ions from some excited state to a lower state.

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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

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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 continues but occurs in the form of pulses of microseconds duration. The defects due to crystalline imperfections are also present in this laser. 26.

B.Tech sem I Engineering Physics U-II Chapter 2-LASER
Engineering Physics Pdf Notes- Enginering physics Notes ... Due to the stimulated characteristic of laser light, the laser light

is more monochromatic than that of a convectional light. laser radiation -the wavelength spread = 0.001 nm So it is clear that the laser radiation is highly monochromatic.

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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 µm (GaN) or 0.63-1.55 µm (AlGaAs, InGaAs, InGaAsP) or 3-20 µm (lead salt).

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