

Engineering Physics Laser 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.

Unit -I LASER Engineering Physics

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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. ENGINEERING PHYSICS UNIT I - LASERS SV COLLEGE OF ENGINEERING, KADAPA.

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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.

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

Similar to the HeNe-laser the Argon ion
gas laser is pumped by electric dis
charge and emits light at wavelength:
488.0nm, 514.5nm, 351nm, 465.8nm,
472.7nm, 528.7nm. It is used in
applications ranging from retinal
phototherapy for diabetes, lithography,
and pumping of other lasers.

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This cylindrical rod (laser rod) and a pumping source (flash tube) are placed inside a highly (reflecting) elliptical reflector cavity. The optical resonator is formed by using two external reflecting mirrors. One mirror (M1) is 100% reflecting while the other mirror (M2) is partially reflecting.

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