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- 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. Gaseous Laser (He - Ne Laser) A helium - neon laser, usually called a He-Ne laser, is a type of small gas laser.

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Engineering Physics I B.Tech CSE/EEE/IT & ECE GRIET 3 d) Atomic radius (r) - The atomic radius is defined as half the distance between neighboring atoms in a crystal of pure element. 4) What are properties of matter Waves. De-Broglie proposed the concept of matter waves, according to which a material particle of

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298 CHAPTER 7. LASERS of the four level laser, see Figure 7.6. If the relaxation rate  $\gamma_{10}$  is very fast

compared to  $\gamma_{21}$ , where the laser action should occur inversion can be achieved, i.e.  $N_2 > N_1$ . For the four level laser the relaxation rate  $\gamma_{32}$  should also be fast in comparison to  $\gamma_{21}$ . These systems are easy to analyze in the rate

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laser has already brought great benefits in surgery, photography, holography, engineering and data storage. Though it is not possible to illustrate all the laser applications reported so far in this small book, the more important ones are covered in the Chapters on Laser Applications.

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Laser light is described as coherent, monochromatic and collimated. The property of coherency is distinct to lasers; it means that laser light waves are in phase and the photons move in step with one another. This property explains why laser beams are very narrow and show little divergence.

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The laser would never have been developed without a profound understanding of an area of fundamental physics - quantum theory. The principle behind the laser goes back to the world's most famous physicist, Albert Einstein, who in 1917 proposed a theory of stimulated light emission.

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