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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.

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5. Spontaneous emission
Spontaneous emission was
postulated by Bohr. The
excited atom does not stay
in a long time in the*

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excited state.

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array of retro reflectors
was mounted on the surface
of the moon and pulses from
a ruby laser were sent from
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He-Ne lasers have many industrial and scientific uses, and are often used in laboratory demonstrations of optics. He-Ne laser is an atomic laser which employs a four-level pumping scheme. The active medium is a mixture of 10 parts of helium to 1 part of neon. Neon atoms are centers and have energy levels suitable

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for laser transitions while helium atoms help efficient excitation of neon atoms.

*B.Tech sem I Engineering
Physics U-II Chapter 2-LASER
298 CHAPTER 7. LASERS of the
four level laser, see Figure
7.6. If the relaxation rate
 γ_{10} is very fast compared to
 γ_{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 γ_{32} should
also be fast in comparison
to γ_{21} . These systems are
easy to analyze in the rate*

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Construction and working of
Ruby, He- Ne and laser
applications, Fundamental
idea about Optical Fibre,
types of Optical Fibre,
acceptance angle and cone,
numerical aperture,
propagation mechanism and
communication in optical
fibre, attenuation, signal*

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loss in optical fibre and its applications.

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Section of infinite wave
train and a wave train of
finite length • Laser light
is highly coherent (coherent
length of few centimeters to
meters).*

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