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LASER stands for light

Amplification by Stimulated

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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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Spontaneous and  
stimulated... 2. result in

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them each causing an additional photon to be released, i.e. from 2 photons we then get 4, and so on! This... 3. This can only happen if there are many ...

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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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Although  $6328 \text{ \AA}$  is standard  
wavelength of He-Ne Laser,  
other visible wavelengths  
 $5430 \text{ \AA}$  (Green)  $5940 \text{ \AA}$

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(yellow-orange), 6120 Å (red-orange) can also produced. Overall gain is very low and is typically about 0.010 % to 0.1 %. The laser is simple practical and less expensive. The Laser beam is highly collimated, coherent

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and monochromatic.

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When mixed with argon it can  
be used as "white-light"  
lasers for light shows.

Carbon Lasers In the carbon

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dioxide (CO<sub>2</sub>) gas laser the laser transitions are related to vibrational-rotational excitations. CO<sub>2</sub> lasers are highly efficient approaching 30%. The main emission wavelengths are 10.6  $\mu$ m and 9.4  $\mu$ m. They are

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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,



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the first laser device was  
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What are properties of matter Waves. De-Broglie proposed the concept of

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matter waves, according to  
which a material particle of

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