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since the invention of the laser in 1958. The coherency, high monochromaticity, and ability to reach extremely high powers are all properties which allow for these specialized applications.

Laser Applications For Engineering
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Physics First Year 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. I The laser output is not continues but occurs in the form of pulses of microseconds duration. The defects Page 26/41

due to crystalline imperfections are also present in this laser. 26.

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Types of Laser. Based on the type of active medium, Laser systems are broadly classified into the following categories. S.NO TYPE OF LASER EXAMPLES. 1. Solid State laser: Ruby Laser Nd:YAG laser. 2. Gas laser: He-Ne Laser, CO2 Laser, Argon I ion laser. 3. Liquid Laser: Page 31/41

SeOCL2 Laser, Europium Chelate Laser. 4.

Nd: YAG laser: Principle, Construction, Working ...
Nonlinear effects are widely used in laser technology to generate new wavelengths or to improve beam

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quality. In four sections the essential nonlinear optical effects are discussed: frequency con- version in crystals, frequency conversion in gases and liquids, stimulated scattering and phase

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