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Laser is a device that amplifies or increases the intensity of light and produces highly directional light. Laser not only amplifies or increases the

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intensity of light but also generates the light. Laser emits light through a process called stimulated emission of radiation which amplifies or increases the intensity of light.

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topics. The different subjects are connected to each other by the central principle of the laser, namely, that it is a self-oscillating system.

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The book (Vol.1) gives the physics of intense-laser absorption in matter and/or plasma in non-relativistic and relativistic laser-intensity regime. In many cases, it is explained with clear images of physics so that an intuitive understanding of individual physics is possible for non-specialists.

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deals with gas, solid state, free-electron
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The laser cavity, or resonator, is at the heart of the system. A single transit through a collection of excited atoms or molecules is sufficient to initiate laser

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action in some high-gain devices such as excimer lasers; however, for most lasers, it is necessary to further enhance the gain with multiple passes through the laser medium.

Lasers: Understanding the Basics | lasers | Photonics ...

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Science And Engineering Karl F. Renk
(auth.) This textbook provides an introductory presentation of all types of lasers. It contains a general description of the laser, a theoretical treatment and a characterization of its operation as it deals with gas, solid state, free-electron and semiconductor lasers.

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Unit -I LASER Engineering Physics

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