

lasers a e siegman pdf

Lasers are distinguished from other light sources by their coherence. Spatial coherence is typically expressed through the output being a narrow beam, which is diffraction-limited. Laser beams can be focused to very tiny spots, achieving a very high irradiance, or they can have very low divergence in order to concentrate their power at a great distance.

Laser - Wikipedia

An optical cavity, resonating cavity or optical resonator is an arrangement of mirrors that forms a standing wave cavity resonator for light waves. Optical cavities are a major component of lasers, surrounding the gain medium and providing feedback of the laser light. They are also used in optical parametric oscillators and some interferometers. Light confined in the cavity reflects multiple ...

Optical cavity - Wikipedia

Zwei stabile Energieniveaus reichen nicht für die Konstruktion eines Lasers aus, wie im Folgenden gezeigt wird. Die Betrachtung von Zweiniveausystemen liefert jedoch die Grundlage für Betrachtungen von Lasermedien mit mehr als zwei Energieniveaus, bei denen Laserbetrieb möglich ist.

Laser – Wikipedia

Description technique. Les lasers Nd:YAG sont pompés optiquement au moyen de lampes flash ou de diodes laser. Ils constituent un des types les plus communs de laser, et sont utilisés dans de nombreuses applications.

Laser Nd-YAG – Wikipedia

Welcome to gw optics.org! These pages provide information and software related to gravitational wave detection, with a special focus on optics research. This page also hosts outreach material of the Gravitational Wave Group Birmingham, UK, supporting the efforts by GEO 600 and the LIGO Scientific Collaboration.

gwoptics: Tools for detecting gravitational waves

Die Exponentialfunktionen mit imaginären Exponenten bestimmen die Phasenlage der Welle bei $(,)$. Dabei bestimmt der Parameter $()$ anschaulich, wie stark die Phase an achsfernen Punkten verzerrt ist, also, wie stark die Wellenfronten gekrümmt sind, und heißt deshalb Krümmungsradius. Er berechnet sich zu

Gauß-Strahl – Wikipedia

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