

## Home Page

The screenshot shows the homepage of the RP Photonics Encyclopedia. At the top, there are navigation tabs for 'RP CONSULTING', 'RP SOFTWARE', 'RP ENCYCLOPEDIA', and 'RP BUYER'S GUIDE'. The main header reads 'RP PHOTONICS ENCYCLOPEDIA ... combined with a great BUYER'S GUIDE!'. Below this is a search bar and a grid of categories from A to Z. A central text block describes the encyclopedia's features, including its size (650+ articles), online availability, connection to the Buyer's Guide, and popularity. On the right, there is a section for 'Numerical Pulse Propagation' and 'RP ProPulse' with a small diagram and text describing its capabilities in simulating pulse propagation in various devices.

## Logo



## URL

<https://www.rp-photonics.com/encyclopedia.html>

## Subject

Physics--Encyclopedias

## Accessibility

Free

## Language

English

## Publisher

RP Photonics Consulting GmbH

## Brief History

This comprehensive open-access encyclopedia is authored by Dr. Rüdiger Paschotta and provided by RP Photonics Consulting GmbH.

## Scope and Coverage

This encyclopedia explains the physical principles and common techniques in laser technology, while also covering major areas of fiber-optic technology and nonlinear optics, and addressing supplementary topics like ultra short pulses, optical communications, general optics, optoelectronics, and quantum optics. It contains 655

full articles. The encyclopedia covers following main categories:

Categories:	
<a href="#">optical amplifiers</a>	<a href="#">optical metrology</a>
<a href="#">lightwave communications</a>	<a href="#">nonlinear optics</a>
<a href="#">fiber optics and waveguides</a>	<a href="#">photonic devices</a>
<a href="#">fluctuations and noise</a>	<a href="#">physical foundations</a>
<a href="#">general optics</a>	<a href="#">light pulses</a>
<a href="#">lasers</a>	<a href="#">quantum optics</a>
<a href="#">optical materials</a>	<a href="#">optical resonators</a>
<a href="#">methods</a>	

The above categories are further subdivided. Like the main category “Laser” includes sub categories like active mode locking, alexandrite lasers, alignment sensitivity, all-solid-state lasers, amplified spontaneous emission, argon ion lasers, beam combining, beam pointing fluctuations, blue lasers, brightness converters, broad-area laser diodes, bulk lasers, cavity dumping, ceramic gain media, chromium-doped gain media, CO<sub>2</sub> lasers, coherent beam combining, composite laser crystals, continuous-wave operation, cooperative lasing, core-less end caps, etc. and many more.

### ***Kind of Information***

In this encyclopedia the article provides information on a particular topic in a different point of views. All the articles start with small definition, along with German terms and instruction of citing the article. After the preliminary information the article then provides different other headings suitable for describing the topic. As for example an article on “Gas Laser” starts with following key facts:

Definition: lasers with a gas (or plasma) as gain medium
German: Gaslaser
Category: lasers
How to cite the article; suggest additional literature

*After the above information, the article then describes different types of Gas Lasers, like Helium–neon laser, Argon ion lasers, Krypton ion lasers, Carbon dioxide lasers, Carbon monoxide lasers, Excimer lasers, Nitrogen lasers, Hydrogen lasers, etc.; then different application of gas lasers. At the end the article includes bibliographies and sees also references. The whole text includes lots of internal links.*

### ***Special Features***

- The encyclopedia offers a glossary of photonics terms.
- The encyclopedia also includes quizzes concerning laser

technology, optical fibers, and nonlinear optics

- The Photonics Spotlight – associated with the Encyclopedia of Laser Physics and Technology is a “blog” (web log) with the purpose of highlighting interesting news and useful information in the area of photonics, particularly laser technology and applications.

***Arrangement Pattern***

In the homepage the A to Z alphabets are provided to browse the articles under each alphabets. The top bar includes link “Categories” by clicking the button on can get the alphabetic list of categories. The sub categories are also arranged alphabetically under particular categories.

***Remarks***

This encyclopedia provides good quality physics related articles free of coast which are very much useful for physics students.

***Date of Access***

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