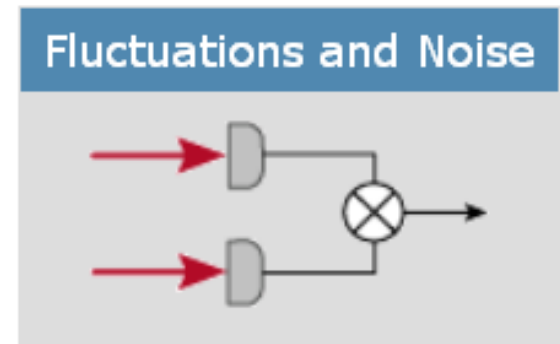
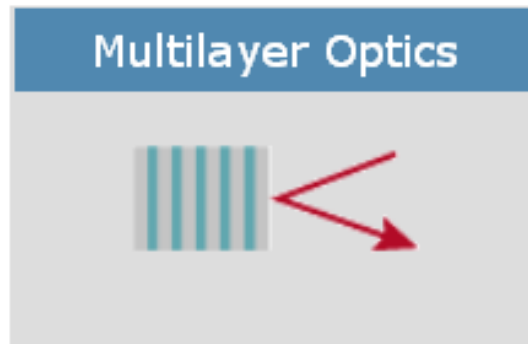
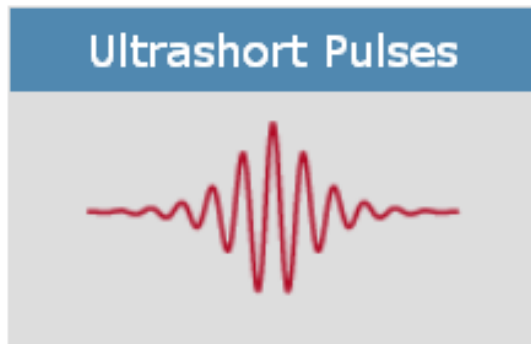
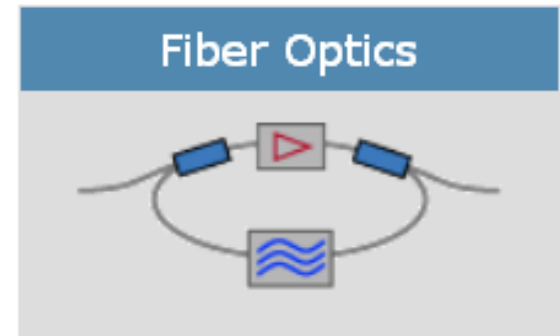
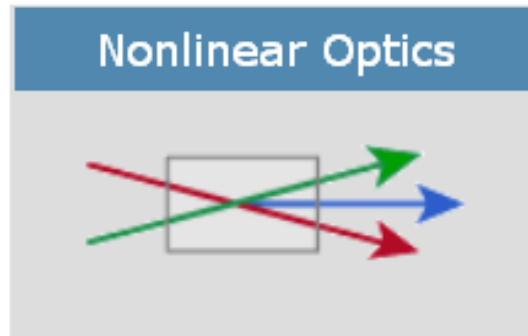
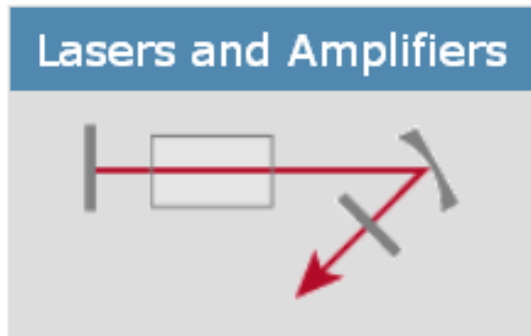


Competent Consulting Services for the Laser and Photonics Industry

Product Design, Problem Solving, Calculations
and Simulations, Independent Expertise,
and Staff Training on



Overview (1)

Consulting for whom: for manufacturers of laser systems and optical components, for users of optical technology, and for high-tech investors and research funding agencies

Technical areas: lasers and amplifiers, nonlinear optics, fiber optics, ultrashort pulses, multilayer optics, fluctuations and noise

Types of services: e.g. laser design, problem analysis (trouble shooting), modeling and software development, independent comparison of products or technologies, proposal writing, working out patent applications, due diligence, and in-house staff training

Overview (2)

Why to work with just *this company*: because of its particularly high scientific and technical competence, its commitment to consistently fair and reliable treatment of all partners, and its flexibility to quickly help in whatever way makes sense

Why to use consultancy at all: because it makes your product development faster and more cost-effective (consider [time to market](#)), expands your resources in a flexible way, raises the competence level of your team, and reduces risks by providing competent and impartial advice for critical decisions

The Company

Name: RP Photonics Consulting GmbH

Location: Waldstr. 17, 78073 Bad Dürkheim, Germany

Website: <http://www.rp-photonics.com/>

Existing since: 2004 (founded in Zürich, moved to Germany in 12/2010)

Tel.: +49 7726 389 22 60

Fax: +49 7726 389 22 62

The founder:

[Dr. Rüdiger Paschotta <Paschotta@rp-photonics.com>](mailto:Paschotta@rp-photonics.com) is a distinguished expert in laser technology and related areas. He is author or coauthor of over 100 scientific articles and the only author of the well-known [Encyclopedia of Laser Physics and Technology](#).



Services for Manufacturers

- [product designs](#), e.g. of diode-pumped lasers or frequency conversion stages
- solving technical problems (trouble shooting)
- [staff training](#): tailored training courses, performed at the customer's location
- [software](#): fixed packages and tailored solutions
- [physical modeling](#)
- independent (unbiased) evaluations of technologies and products
- help with proposal writing, patent applications, due diligence, etc.
- [advertising](#): highly targeting advertising via links and banners in the [Encyclopedia of Laser Physics and Technology](#)

There are also services for [investors](#) and [communications experts](#).

Training on Laser Technology

RP Photonics provides staff training courses for companies and institutes. This is a highly efficient way of boosting a team's know-how within a short time. Some key aspects:

- The topics, level of detail and duration of a course are exactly **tailored to the customer's needs**.
- Courses can be done **at the customer's premises** – don't spend any traveling time.
- A course is also an ideal way of finding out what you can expect from the consultancy offered by Dr. Paschotta.

Dr. Paschotta also regularly performs short courses at international scientific conferences such as Photonics West, ASSP and CLEO/Europe. Recent topics were laser beam quality, resonator design, applied nonlinear frequency conversion, modeling of fiber amplifiers and lasers and high-power lasers.

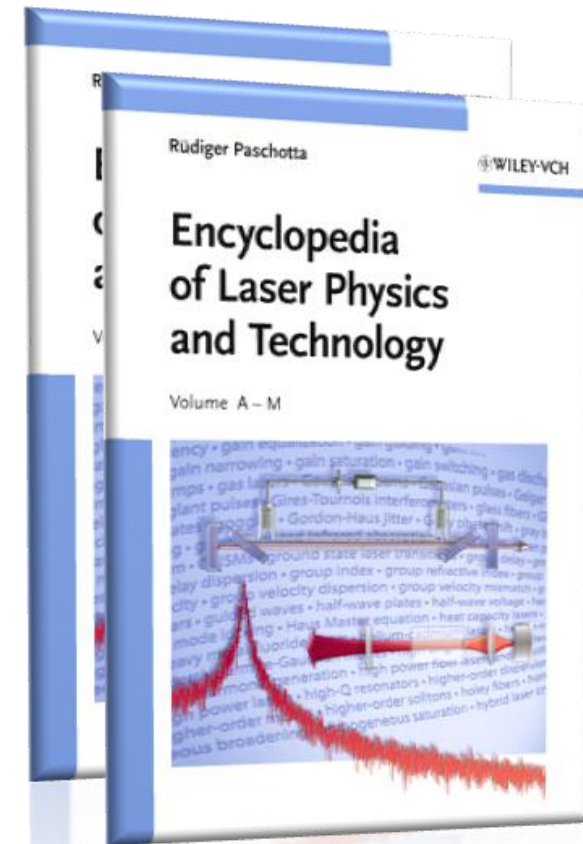
Publications

Manifold publications are useful sources of information on laser technology and also demonstrate the expertise of the founder, [Dr. Rüdiger Paschotta](#):

- Over 100 articles appeared in refereed scientific journals (see the [CV of Dr. Paschotta](#))
- [Encyclopedia of Laser Physics and Technology](#): see the next page
- Additional books: SPIE Field Guides on **Lasers**, **Laser Pulse generation**, and **Optical Fiber Technology**, see a later page

Encyclopedia of Laser Physics and Technology

This extensive source of high-quality information on laser technology and related areas is available in open-access form in the [Internet](http://www.rp-photonics.com) and as a two-volume book published via [Wiley VCH](http://www.wiley-vch.de).

The screenshot shows a web browser window displaying the 'Encyclopedia of Laser Physics and Technology' website. The page title is 'Critical Phase Matching'. The navigation menu includes Home, New articles, Spotlight, Feedback, Advertising, Categories, Search, Quiz, Links, and Page hits. A grid of letters A-Z is visible, with 'C' highlighted. The main content area defines 'Critical Phase Matching' as a technique for obtaining phase matching of some nonlinear process in a birefringent crystal. It includes a diagram (Figure 1) showing the polarization directions of fundamental (red) and second-harmonic (green) waves relative to the beam direction and the axes of the index ellipsoid. The diagram shows a 3D coordinate system with X, Y, and Z axes. A blue arrow represents the beam direction. A red arrow represents the fundamental polarization, and a green arrow represents the second-harmonic polarization. The angle between the beam direction and the Z-axis is labeled ϕ . The angle between the fundamental polarization and the Z-axis is labeled θ . The angle between the second-harmonic polarization and the Z-axis is labeled ψ . The caption for Figure 1 states: 'Figure 1: Critical phase matching of second-harmonic generation in LBO. The polarization directions of fundamental (red) and second-harmonic wave (green) are perpendicular to the beam direction, and to each other.' The right sidebar contains advertisements for RP Photonics Consulting GmbH, A.L.S. GmbH Advanced Laser Diode Systems, and Onefive femtosecond, picosecond, and tunable single-frequency lasers. At the bottom, there is a 'Field Guide to Lasers' advertisement.

SPIE Field Guides

The [SPIE Field Guides](#) represent a series of handy books, which quickly introduce into certain technical topics. Dr. Paschotta has so far authored the Field Guides on [Lasers](#), [Laser Pulse Generation](#) and [Optical Fiber Technology](#), which have become quite popular.

