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Richard Scheps has been developing diode-pumped lasers since 1986. He has published extensively in this field and was the first to demonstrate diode pumping in various gain media, including Cr:LiCAF, Cr,Nd:GSGG, and rhodamine 700 (LD700).

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This is done in two steps: The "fast axis" is collimated with an aligned grating of cylindrical micro-lenses. The partially collimated beams are then imaged at reduced size into the crystal. The crystal can be pumped...

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### Diode-pumped solid-state laser - Wikipedia

Introduction to Laser Diode-Pumped Solid State Lasers Richard Scheps. This Tutorial Text covers a wide range of material, from the basics of laser resonators to advanced topics in laser diode pumping. The subject matter is presented in descriptive terms that are understandable by the technical professional who does not have a strong foundation ...

### Introduction to Laser Diode-Pumped Solid State Lasers ...

Introduction to Laser Diode-Pumped Solid State Lasers. Author(s): Richard Scheps. Format Member Price Non-Member Price; Softcover: \$33.80 \$44.20: \$41.60 \$52.00: PDF: \$28.60 \$37.40: \$35.20 ...

### Introduction to Laser Diode-Pumped Solid State Lasers ...

A laser diode, (LD), injection laser diode (ILD), or diode laser is a semiconductor device similar to a light-emitting diode in which a diode pumped directly with electrical current can create lasing conditions at the diode's junction.: 3 Laser diodes can directly convert electrical energy into light. Driven by voltage, the doped p-n-transition allows for recombination of an electron with a hole.

### Laser diode - Wikipedia

There has been recent interest in diode pumped metastable rare gas lasers (DPRGLs) and their scaling to higher powers, due to the advantages of excellent beam quality and high quantum efficiency. In this paper, a cw diode pumped rare gas amplifier (DPRGA) with single-pass longitudinally pumped configuration is studied theoretically based on master oscillator and power amplifier (MOPA). A five ...

### Modeling of scaling of a diode longitudinally pumped ...

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### Introduction To Laser Diode Pumped Solid State Lasers Spie ...

The pump diode is a bare chip soldered to a brass plate with the top contact attached using silver conductive Epoxy. The DPM0101 is glued into a slot in its own brass plate with 4 screws and lock-washers for adjustment. I have built a unit similar to this for someone who needs to show non-laser types how a basic diode pumped microchip laser works.

### Sam's Laser FAQ - Home-Built Diode Pumped Solid State ...

The rod is typically 5 to 8 mm in diameter, 5 to 10 cm long, and surrounded by coolant that flows between an outer glass tube and the laser rod. The pump light from the diode arrays is coupled into the rod by coupling optics. Several of the stacked laser arrays can be arrayed along the length of the laser rod.

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## [Introduction to solid-state lasers | Laser Focus World](#)

The laser diode's "active region" resides in the i (intrinsic) region. The electrons and holes (i.e., the carriers) are pumped into the i region from the n and p regions, respectively. Figure 2 below shows a laser diode with the case cut away.

## [An Introduction to Laser Diodes - Technical Articles](#)

This Tutorial Text covers a wide range of material, from the basics of laser resonators to advanced topics in laser diode pumping. The subject matter is presented in descriptive terms that are understandable by the technical professional who does not have a strong foundation in fundamental laser optics.

## [Introduction to Laser Diode-Pumped Solid State Lasers](#)

Introduction. The Cobolt 05 -01 Series lasers are continuous -wave diode pumped laser (DPL) devices operating at a fixed wavelength between 355 nm and 1064 nm. The lasers are built using proprietary HTCure™ manufacturing technology for ultra-robustness in a compact hermetically sealed package.

## [High Power | Single Frequency | CW Diode pumped lasers](#)

Diode pumped lasers are becoming more and more important in laser machining. Diode pumped solid state (DPSS) lasers are solid state lasers made by pumping a solid gain medium, for example, a ruby...

## [An Overview of Diode Pumped Solid State \(DPSS\) Lasers](#)

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Cw laser oscillation of ruby at 694 nm in linear and ring resonators is reported for the first time, pumped with a 1 W laser diode at 405 nm as well as 445 nm. The ruby laser operates at room temperature with a threshold of 200 mW at 405 nm and 400 mW at 445 nm. So far output powers up to 36 mW have been achieved pumped at 405 nm.

## [OSA | Diode pumped cw ruby laser](#)

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