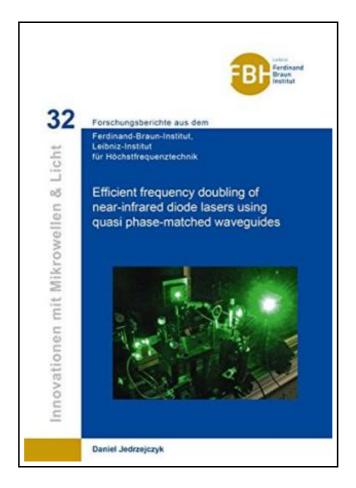
# Efficient frequency doubling of near-infrared diode lasers using quasi phase-matched waveguides



Filesize: 8.06 MB

#### Reviews

The ebook is straightforward in go through preferable to recognize. It typically does not charge too much. Its been designed in an exceptionally straightforward way and it is just following i finished reading this book where basically altered me, affect the way i really believe.

(Dr. Reta Murphy)

# EFFICIENT FREQUENCY DOUBLING OF NEAR-INFRARED DIODE LASERS USING QUASI PHASE-MATCHED WAVEGUIDES



To save Efficient frequency doubling of near-infrared diode lasers using quasi phase-matched waveguides eBook, remember to follow the button under and download the document or have accessibility to additional information that are highly relevant to EFFICIENT FREQUENCY DOUBLING OF NEAR-INFRARED DIODE LASERS USING QUASI PHASE-MATCHED WAVEGUIDES ebook.

Cuvillier Verlag Mai 2015, 2015. Taschenbuch. Book Condition: Neu. 208x148x15 mm. Neuware - Single-pass frequency doubling of near-infrared (NIR) diode lasers in nonlinear bulk crystals allows to realize compact lasers in the green spectral region, offering continuous-wave (CW) laser radiation characterized by a high spectral brightness. In order to increase the efficiency of such laser systems, the application of quasi phase-matched waveguide structures instead of bulk crystals is investigated theoretically and experimentally. In particular, a complemented study of second-harmonic generation (SHG) in periodically poled MgO-doped lithium niobate (MgO:LN) ridge and planar waveguides is conducted. This study aims at identifying benefits and limitations for both geometries with respect to maximum conversion efficiency and accessible power. The application of waveguide structures presented in this thesis results in a distinct improvement of the opto-optical conversion efficiency - from approximately 20 % in a bulk crystal to almost 30 % in a planar waveguide, and to around 40 % in a ridge waveguide. A maximum second-harmonic power of nearly 0.4 W in a ridge waveguide and 1.2 W in planar waveguide is reached. The generated laser radiation in the green spectral range is characterized by a single-frequency spectrum and nearly diffrac-tion-limited beam quality and thus ideally suited for applications in bio-medicine, bio-technology, and spectroscopy. 115 pp. Englisch.

- Read Efficient frequency doubling of near-infrared diode lasers using quasi phase-matched waveguides Online
- Download PDF Efficient frequency doubling of near-infrared diode lasers using quasi phase-matched waveguides
- Download ePUB Efficient frequency doubling of near-infrared diode lasers using quasi phase-matched waveguides

#### Other Kindle Books



#### [PDF] Psychologisches Testverfahren

Follow the web link listed below to get "Psychologisches Testverfahren" PDF file. Save Book »



#### [PDF] Programming in D

Follow the web link listed below to get "Programming in D" PDF file. Save Book »



#### [PDF] Adobe Indesign CS/Cs2 Breakthroughs

Follow the web link listed below to get "Adobe Indesign CS/Cs2 Breakthroughs" PDF file. Save Book »



#### [PDF] Have You Locked the Castle Gate?

Follow the web link listed below to get "Have You Locked the Castle Gate?" PDF file. Save Book  $\mbox{\tt >}$ 



#### [PDF] The Java Tutorial (3rd Edition)

Follow the web link listed below to get "The Java Tutorial (3rd Edition)" PDF file. Save Book »



#### [PDF] Fifth-grade essay How to Write

Follow the web link listed below to get "Fifth-grade essay How to Write" PDF file. Save Book »



# [PDF] Words and Rhymes for Kids: A Fun Teaching Tool for High Frequency Words and Word Families

Access the web link listed below to get "Words and Rhymes for Kids: A Fun Teaching Tool for High Frequency Words and Word Families" file.

Download ePub »



### [PDF] Read Write Inc. Phonics: Grey Set 7 Storybook 12 a Very Dangerous Dinosaur

Access the web link listed below to get "Read Write Inc. Phonics: Grey Set 7 Storybook 12 a Very Dangerous Dinosaur" file.

Download ePub »



#### [PDF] Hope for Autism: 10 Practical Solutions to Everyday Challenges

Access the web link listed below to get "Hope for Autism: 10 Practical Solutions to Everyday Challenges" file.

Download ePub »



## [PDF] Who am I in the Lives of Children? An Introduction to Early Childhood Education

Access the web link listed below to get "Who am I in the Lives of Children? An Introduction to Early Childhood Education" file.

Download ePub »



# [PDF] Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback)

Access the web link listed below to get "Oxford Reading Tree Read with Biff, Chip, and Kipper: Phonics: Level 2: The Fizz-buzz (Hardback)" file.

Download ePub »



#### [PDF] Chicken Licken - Read it Yourself with Ladybird: Level 2

Access the web link listed below to get "Chicken Licken - Read it Yourself with Ladybird: Level 2" file.

Download ePub »