



High Power Diode Lasers: Technology and Applications (Springer Series in Optical Sciences)

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This book summarizes a five year research project, as well as subsequent results regarding high power diode laser systems and their application in materials processing. The text explores the entire chain of technology, from the semiconductor technology, through cooling mounting and assembly, beam shaping and system technology, to applications in the processing of such materials as metals and polymers. Includes theoretical models, a range of important parameters and practical tips.

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Editorial Review

From the Back Cover

In a very comprehensive way this book covers all aspects of high power diode laser technology for materials processing. Basics as well as new application oriented results obtained in a government funded national German research project are described in detail. Along the technological chain after a short introduction in the second chapter diode laser bar technology is discussed regarding structure, manufacturing technology and metrology. The third chapter illuminates all aspects of mounting and cooling, whereas chapter four gives wide spanning details on beam forming, beam guiding and beam combination, which are essential topics for incoherently coupled multi-emitter based high power diode lasers. Metrology, standards and safety aspects are the theme of chapter five. As an outcome of all the knowledge from chapter two to four various system configurations of high power diode lasers are described in chapter six; not only systems focussed on best available beam quality but especially also so called "modular" set-ups are considered, where assemblies adapted to special applications are chosen. Finally, a wide field of applications, performed with the systems described in chapter six is described in chapter seven.

About the Author

Poprawe: University Professor with simultaneous responsibility for an application oriented Fraunhofer Institute (ILT, Aachen); The every day business is defined between research, teaching on the University level and Innovation for German, European and global companies.

Loosen: University professor and deputy chair of the Fraunhofer-Institute ILT-Aachen

Bachmann: Product Manager for High Power Diode Lasers at ROFIN-SINAR Laser GmbH, a major manufacturer of laser sources for industrial manufacturing and also directing national government funded R&D projects related to diode laser technology.

Users Review

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Christina McMullen:

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Young Legg:

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William McNeill:

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