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A Practical Guide to Handling Laser Diode Beams Haiyin Sun, 2015-02-20 This book offers the reader a practical guide to the control and characterization of laser diode beams. Laser diodes are the most widely used lasers accounting for 50% of the global laser market. Correct handling of laser diode beams is the key to the successful use of laser diodes and this requires an in depth understanding of their unique properties. Following a short introduction to the working principles of laser diodes the book describes the basics of laser diode beams and beam propagation including Zemax modeling of a Gaussian beam propagating through a lens. The core of the book is concerned with laser diode beam manipulations: collimating and focusing, circularization and astigmatism correction, coupling into a single mode optical fiber, diffractive optics and beam shaping and manipulation of multi transverse mode beams. The final chapter of the book covers beam characterization methods describing the measurement of spatial and spectral properties including wavelength and linewidth measurement techniques. The book is a significantly revised and expanded version of the title *Laser Diode Beam Basics: Manipulations and Characterizations* by the same author. New topics introduced in this volume include laser diode types and working principles, non paraxial Gaussian beam, Zemax modeling, numerical analysis of a laser diode beam, spectral property characterization methods and power and energy characterization techniques. The book approaches the subject in a practical way with mathematical content kept to the minimum level required, making the book a convenient reference for laser diode users. **A New Generation of**

Ultrafast Oscillators for Mid-Infrared Applications Nathalie Nagl, 2022-02-01 This thesis presents the first successful realization of a compact low noise and few cycle light source in the mid infrared wavelength region. By developing the technology of pumping femtosecond chromium doped II VI laser oscillators directly with the emission of broad stripe single emitter laser diodes, coherent light was generated with exceptionally low amplitude noise, crucial for numerous applications including spectroscopy at high sensitivities. Other key parameters of the oscillator's output, such as pulse duration and output power, matched and even surpassed previous state of the art systems. As a demonstration of its unique capabilities, the oscillator's powerful output was used to drive without further amplification the nonlinear generation of coherent mid infrared light spanning multiple octaves. The resulting table top system uniquely combines high brilliance and ultrabroad spectral bandwidth in the important mid infrared spectral range. The rapid development of this technology is comprehensively and lucidly documented in this PhD thesis. Together with a thorough review of literature and applications and an extensive analysis of the theoretical foundations behind ultrafast laser oscillators, the thesis will serve as a valuable reference for the construction of a new generation of mid infrared light sources. Laser Diode Beam Basics, Manipulations and

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deal with laser diode physics with little touching on laser diode beam manipulations and characterizations There are some internet resources dealing with laser diode beams However these internet resources have not covered enough materials with enough details on laser diode beam manipulations and characterizations A technical book concentrated on laser diode beam manipulations and characterizations can fit in to the open and provide useful information to laser diode users Laser Diode Beam Basics Manipulations and Characterizations is concentrated on the very practical side of the subject it only discusses the basic physics and mathematics that are necessary for the readers in order to understand the subject This book is intended to provide a practical guidance and reference to those scientists and engineers who are still new to laser diode applications and to those undergraduate and graduate students who are studying lasers and optics Readers are expected to be able to fast and easily find the most practical and useful information about laser diodes in this book without the need of searching through a sea of information

Guide to Laser Safety A. Roy Henderson,1997-02-28 This is a practical guide to the safe use of lasers in science education industry telecommunications entertainment and medicine Henderson explains the nature of laser hazards and how to implement safety controls to international standards

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