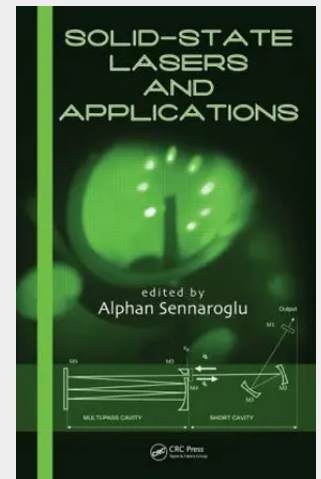


Solid-State Lasers and Applications

Because of the favorable characteristics of solid-state lasers, they have become the preferred candidates for a wide range of applications in science and technology, including spectroscopy, atmospheric monitoring, micromachining, and precision metrology. Presenting the most recent developments in the field, *Solid-State Lasers and Applications* focuses on the design and applications of solid-state laser systems. With contributions from leading international experts, the book explores the latest research results and applications of solid-state lasers as well as various laser systems. The beginning chapters discuss current developments and applications of new solid-state gain media in different wavelength regions, including cerium-doped lasers in the ultraviolet range, ytterbium lasers near $1\mu\text{m}$, rare-earth ion-doped lasers in the eye-safe region, and tunable $\text{Cr}^{2+}:\text{ZnSe}$ lasers in the mid-infrared range. The remaining chapters study specific modes of operation of solid-state laser systems, such as pulsed microchip lasers, high-power neodymium lasers, ultrafast solid-state lasers, amplification of femtosecond pulses with optical parametric amplifiers, and noise characteristics of solid-state lasers. *Solid-State Lasers and Applications* covers the most important aspects of the field to provide current, comprehensive coverage of solid-state lasers.



195,50 €

182,71 € (zzgl. MwSt.)

Nicht mehr lieferbar

Artikelnummer: 9780849335891

Medium: Buch

ISBN: 978-0-8493-3589-1

Verlag: Taylor & Francis Inc

Erscheinungstermin: 16.11.2006

Sprache(n): Englisch

Auflage: 1. Auflage 2006

Serie: Optical Science and Engineering

Produktform: Gebunden

Gewicht: 885 g

Seiten: 548

Format (B x H): 156 x 235 mm

