



Photonics West Lase 2015 Applications

Krzysztof Jakubczak



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Laser Systems for Applications Krzysztof Jakubczak, 2011-12-14 This book addresses topics related to various laser systems intended for the applications in science and various industries. Some of them are very recent achievements in laser physics e.g. laser pulse cleaning while others face their renaissance in industrial applications e.g. CO₂ lasers. This book has been divided into four different sections: 1. Laser and terahertz sources, 2. Laser beam manipulation, 3. Intense pulse propagation phenomena, and 4. Metrology. The book addresses such topics like Q-switching, mode locking, various laser systems, terahertz source driven by lasers, micro lasers, fiber lasers, pulse and beam shaping techniques, pulse contrast, metrology, and improvement techniques. This book is a great starting point for newcomers to laser physics. **Handbook of**

Laser Technology and Applications Chunlei Guo, Chandra Subhash Singh, 2021-06-23 This comprehensive handbook gives a fully updated guide to lasers and laser technologies including the complete range of their technical applications. This fourth volume covers laser applications in the medical, metrology, and communications fields. **Key Features:** Offers a complete update of the original bestselling work including many brand new chapters. Deepens the introduction to fundamentals from laser design and fabrication to host matrices for solid state lasers, energy level diagrams, hosting materials, dopant energy levels, and lasers based on nonlinear effects. Covers new laser types including quantum cascade lasers, silicon-based lasers, titanium sapphire lasers, terahertz lasers, bismuth-doped fiber lasers, and diode-pumped alkali lasers. Discusses the latest applications e.g. lasers in microscopy, high speed imaging, attosecond metrology, 3D printing, optical atomic clocks, time-resolved spectroscopy, polarization and profile measurements, pulse measurements, and laser-induced fluorescence detection. Adds new sections on laser materials processing, laser spectroscopy, lasers in imaging, lasers in environmental sciences, and lasers in communications. This handbook is the ideal companion for scientists, engineers, and students working with lasers including those in optics, electrical engineering, physics, chemistry, biomedicine, and other relevant areas. **Micro- and**

Nanophotonic Technologies Patrick Meyrueis, Kazuaki Sakoda, Marcel Van de Voorde, 2017-03-20 Edited and authored by leading experts from top institutions in Europe, the US, and Asia, this comprehensive overview of micro and nanophotonics covers the physical and chemical fundamentals while clearly focusing on the technologies and applications in industrial, R, light conversion, and energy generation, light-based fabrication of materials, and micro and nanophotonic devices in metrology and control. **Handbook of Laser Technology and Applications** Colin Webb, Julian D.C. Jones, 2020-09-29 The invention of the laser was one of the towering achievements of the twentieth century. At the opening of the twenty-first century, we are witnessing the burgeoning of the myriad technical innovations to which that invention has led. The Handbook of Laser Technology and Applications is a practical and long-lasting reference source for scientists and engineers who work with lasers. The Handbook provides a comprehensive guide to the current status of lasers and laser systems; it is accessible to science or engineering graduates needing no more than standard undergraduate knowledge of optics. Whilst being a self-

contained reference work the Handbook provides extensive references to contemporary work and is a basis for studying the professional journal literature on the subject It covers applications through detailed case studies and is therefore well suited to readers who wish to use it to solve specific problems of their own The first of the three volumes comprises an introduction to the basic scientific principles of lasers laser beams and non linear optics The second volume describes the mechanisms and operating characteristics of specific types of laser including crystalline solid state lasers semiconductor diode lasers fibre lasers gas lasers chemical lasers dye lasers and many others as well as detailing the optical and electronic components which tailor the laser s performance and beam delivery systems The third volume is devoted to case studies of applications in a wide range of subjects including materials processing optical measurement techniques medicine telecommunications data storage spectroscopy earth sciences and astronomy and plasma fusion research This vast compendium of knowledge on laser science and technology is the work of over 130 international experts many of whom are recognised as the world leaders in their respective fields Whether the reader is engaged in the science technology industrial or medical applications of lasers or is researching the subject as a manager or investor in technical enterprises they cannot fail to be informed and enlightened by the wide range of information the Handbook supplies

Nonlinear Photonics in Mid-infrared Quantum Cascade Lasers Louise Jumpertz, 2017-08-31 This thesis presents the first comprehensive analysis of quantum cascade laser nonlinear dynamics and includes the first observation of a temporal chaotic behavior in quantum cascade lasers It also provides the first analysis of optical instabilities in the mid infrared range Mid infrared quantum cascade lasers are unipolar semiconductor lasers which have become widely used in applications such as gas spectroscopy free space communications or optical countermeasures Applying external perturbations such as optical feedback or optical injection leads to a strong modification of the quantum cascade laser properties Optical feedback impacts the static properties of mid infrared Fabry Perot and distributed feedback quantum cascade lasers inducing power increase threshold reduction modification of the optical spectrum which can become either single or multimode and enhanced beam quality in broad area transverse multimode lasers It also leads to a different dynamical behavior and a quantum cascade laser subject to optical feedback can oscillate periodically or even become chaotic A quantum cascade laser under external control could therefore be a source with enhanced properties for the usual mid infrared applications but could also address new applications such as tunable photonic oscillators extreme events generators chaotic Light Detection and Ranging LIDAR chaos based secured communications or unpredictable countermeasures

NASA Tech Briefs ,2004 **Development and analysis of diode laser ns-MOPA systems for high peak power application** Thi Nghiem Vu, 2017-02-14 This work aims at designing and characterizing diode laser based master oscillator power amplifier MOPA systems which are targeted to be implemented into micro light detection and ranging LIDAR or differential absorption LIDAR DIAL systems for water vapor and aerosol detections These light sources operate in the ns pulse regime at a repetition rate of 25 kHz leading to a resolution in the

meter range in an altitude of 6 km The monolithic MOPA where Master Oscillator MO and Power Amplifier PA are integrated on one single chip operates at 1064 nm wavelength A peak power of 16.3 W with a pulse width of 3 ns was obtained A spectral linewidth of about 150 pm and a side mode suppression ratio SMSR of 30 dB was observed A ratio of 9% between the amplified spontaneous emission ASE and the laser was estimated These spectral properties fulfill the requirements for aerosol detection The hybrid MOPA systems have separate chips for MO and PA Different hybrid MOPA systems provide a stabilized wavelength at 1064 nm a tunable wavelength around 975 nm and a dual wavelength around 964 nm They therefore enable to detect a well defined absorption line scan over absorption line and switch between on off line in DIAL applications respectively Their spectral linewidth is below 10 pm limited by the resolution of the spectrum analyzer An SMSR of more than 50 dB for the MO and of more than 37 dB for the whole MOPA was reached A ratio between ASE and laser below 1% was estimated These spectral properties meet the requirements for water vapor absorption lines detection at atmospheric condition Diode laser based MOPA systems were therefore proven to be potential light sources for micro pulse LIDAR systems the basis for a new generation of ultra compact low cost systems

Applications of Laser Ablation Dongfang Yang, 2016-12-21 Laser ablation refers to the phenomenon in which a low wavelength and short pulse ns fs duration of laser beam irradiates the surface of a target to induce instant local vaporization of the target material generating a plasma plume consisting of photons electrons ions atoms molecules clusters and liquid or solid particles This book covers various aspects of using laser ablation phenomenon for material processing including laser ablation applied for the deposition of thin films for the synthesis of nanomaterials and for the chemical compositional analysis and surface modification of materials Through the 18 chapters written by experts from international scientific community the reader will have access to the most recent research and development findings on laser ablation through original research studies and literature reviews

Le laser et ses applications Pascal BESNARD, Pierre-Noël Favennec, 2010-11-18 Le laser 50 ans après son invention est devenu un dispositif incontournable Cet ouvrage dresse un panorama de ses multiples applications en télécommunications médecine métrologie aérospatiale ou dans les TIC Rédigé par des spécialistes issus de l'industrie ou de la recherche il traite de l'introduction des lasers dans des technologies diverses comme le gyro-laser les technologies fibres la biophotonique le traitement de surface le laser-mégajoule ou l'ingénierie quantique Le laser et ses applications s'adresse aux étudiants ingénieurs et chercheurs qui souhaitent avoir une vue globale sur le laser et approfondir leur connaissance sur ce composant et ses implications industrielles actuelles ou futures Cet ouvrage a vu le jour suite à un cycle de seize conférences autour des applications du laser et organisé par l'ENSSAT Lannion et le laboratoire CNRS Foton et au soutien d'entreprises engagées dans le développement de produits et d'équipements dont le laser est le dispositif essentiel Ce livre appartient à la collection Tlcom publiée sous le gide de l'Institut Tlcom et avec le soutien de Orange Labs La collection Tlcom rend compte des derniers développements dans l'ensemble des domaines des sciences et technologies de l'information et de la communication

Raman Fiber Lasers Yan Feng, 2017-10-05 This book serves as a comprehensive up to date reference about this cutting edge laser technology and its many new and interesting developments Various aspects and trends of Raman fiber lasers are described in detail by experts in their fields Raman fiber lasers have progressed quickly in the past decade and have emerged as a versatile laser technology for generating high power light sources covering a spectral range from visible to mid infrared The technology is already being applied in the fields of telecommunication astronomy cold atom physics laser spectroscopy environmental sensing and laser medicine This book covers various topics relating to Raman fiber laser research including power scaling cladding and diode pumping cascade Raman shifting single frequency operation and power amplification mid infrared laser generation specialty optical fibers and random distributed feedback Raman fiber lasers The book will appeal to scientists students and technicians seeking to understand the recent developments and future trends of this promising and multifaceted technology

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