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Written from an industrial perspective this book discusses in detail the characteristics, design, construction, and performance of solid-state lasers. Emphasis is placed on engineering and practical considerations; phenomenological aspects using models are preferred to abstract mathematical derivations. Since its first edition almost 30 years ago this book has become the standard in the field of solid-state lasers for scientists, engineers and graduate students. This edition has been extensively revised and updated to account for recent developments in the areas of diode-laser pumping, laser materials and nonlinear crystals, and entire new sections have been added. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. SURPLUS RECORD, is the leading independent business directory of new and used capital equipment, machine tools, machinery, and industrial equipment, listing over 110,000 industrial assets; including metalworking and fabricating machine tools, chemical and process equipment, cranes, air compressors, pumps, motors, circuit breakers, generators, transformers, turbines, and more. Over 1,100 businesses list with the SURPLUS RECORD. March 2022 issue. Vol. 100, No. 1 From the automotive

industry to blood flow monitoring, optical techniques and laser diagnostics are becoming integral parts in engineering and medical instrumentation. Written by leading global experts from industry, academic groups, and laboratories, this volume provides an international perspective on both existing applications and leading-edge research. With a focus on advanced engineering applications, the book discusses the application of techniques such as laser Doppler velocimetry, particle image velocimetry, and planar laser-induced fluorescence to automotive engines, burners, and gas turbines. It also covers the flow, sprays, and combustion in direct-injection gasoline engines as well as the fundamental structure of flames as revealed by complementary laser techniques. In addition, the book explores laser diagnostic techniques used in the biomedical field and reviews novel research on the use of fiber-optic sensor techniques for structural integrity and physical condition monitoring.

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The first edition of this text offers guidance and advice on the diagnosis and management of the complete spectrum of ophthalmic tumors, including the eyelid, conjunctival, intraocular, and orbital tumors. The editors are joined by over 120 international contributors to present a broad perspective from a multidisciplinary team that will offer a diverse and balanced view of ophthalmic oncology clinical practice. This is a comprehensive book that includes over 100 chapters, organized into 7 sections that provide a wealth of information for the management of patients with ophthalmic tumors from examination techniques to classification to surgical techniques.

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and practical solutions help you make better buying decisions and get more from technology. And investigation has been conducted in which a laser velocimeter was used to measure free-stream velocities from Mach 0.1 to 1.0 and the flow velocities along the stagnating streamline of a hemisphere-cylinder model at Mach 0.8 and 1.0. The flow velocity was also measured at Mach 1.0 along the line 0.533 model diameters below the model. These tests determined the performance characteristics of the dedicated two-component laser velocimeter at flow velocities up to Mach 1.0 and the effects of the wind tunnel environment on the particle-generating system and on the resulting size of the generated particles. To determine these characteristics, the measured particle velocities along the stagnating streamline at the two Mach numbers were compared with the theoretically predicted gas and particle velocities calculated using a transonic potential flow method. Through this comparison the mean detectable particle size (2.1 micrometers) along with the standard deviation of the detectable particle (0.76 micrometers) was determined; thus the performance characteristics of the laser velocimeter were established. Keywords: Laser velocity; Transonic flows; Particle sizing. Method and apparatus for inducing laser action in CO₂ at a wavelength of 16 microns involving the transition between the 02^{sup}.0 0 and 01^{sup}. 1 0 states. The population inversion between these two states is achieved by pumping to the 00^{sup}.0 1 level, suppressing the usual 10.6 micron transition to the 10^{sup}.0 0 level and encouraging the 9.6 micron transition, thereby populating the 02^{sup}.0 0 level, as the principal prerequisite for 16 micron laser action between the 02^{sup}.0 0 and 01^{sup}. 1 0 levels. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. An exploratory research effort to find new molecular lasers in the 7-16 .mu.m wavelength range, in particular lasers with wavelengths at 7.7, 8.6, and 16 .mu.m wavelengths, is described. The specific initial objectives were: (1) to explore Raman scattering of CO₂ radiation in a liquid and molecular gas and (2) to explore chemically excited metal fluorides as laser candidates for the 12-16 .mu.m wavelength range. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. This volume contains the Proceedings of a two-week summer conference

titled "Advances in Integrated Optics" held June 1-9, 1993, in Erice, Sicily. This was the 18th annual course organized by the International School of Quantum Electronics, under the auspices of the "Ettore Majorana" Centre for Scientific Culture. The term Integrated Optics signifies guided-wave optical circuits consisting of two or more devices on a single substrate. Since its inception in the late 1960's, Integrated Optics has evolved from a specialized research topic into a broad field of work, ranging from basic research through commercial applications. Today many devices are available on market while a big effort is devolved to research on integrated nonlinear optical devices. This conference was organized to provide a comprehensive survey of the frontiers of this technology, including fundamental concepts, nonlinear optical materials, devices both in the linear and nonlinear regimes, and selected applications. These Proceedings update and augment the material contained in a previous ISQE volume, "Integrated Optics: Physics and Applications", S. Martellucci and A. N. Chester, Eds. , NATO ASI Series B, Vol. 91 (Plenum, 1983). For some closely related technology, the reader may also wish to consult the ISQE volumes: "Optical Fiber Sensors", A. N. Chester, S. Martellucci and A. M. Scheggi, Eds. , NATO ASI Series E, Vol. 132 (Nijhoff, 1987) ; and, "Nonlinear Optics and Optical Computing", S. Martellucci and A. N. Chester, Eds. , E. Majorana Int'l Science Series, Vol. 49 (plenum, 1990). A 1-J laser was designed to launch light down 16, multi-mode fibers (400- μ m-core dia.). A diffractive-optic splitter was designed in collaboration with Digital Optics Corporation (DOC), and was delivered by DOC. Using this splitter, the energy injected into each fiber varied

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. Since its inception in 1966, the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well-known authors, editors, and contributors. The "Willardson and Beer" Series, as it is widely known, has succeeded in publishing numerous landmark volumes and chapters. Not only did many of these volumes make an impact at the time of their publication, but they continue to be well-cited years after their original release. Recently, Professor Eicke R. Weber of the University of California at Berkeley joined as a co-editor of the series. Professor Weber, a well-known expert in the field of semiconductor materials, will further contribute to continuing the series' tradition of publishing timely, highly relevant, and long-impacting volumes. Some of the recent volumes, such as Hydrogen in Semiconductors, Imperfections in III/V Materials, Epitaxial Microstructures, High-Speed Heterostructure Devices, Oxygen in Silicon, and others promise indeed that this tradition will be maintained and even expanded. Reflecting the truly interdisciplinary nature of the field that the series covers, the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists, chemists, materials scientists, and device engineers in modern industry. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest

products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. The series of books discusses the physics of laser and matter interaction, fluid dynamics of high-temperature and high-density compressible plasma, and kinetic phenomena and particle dynamics in laser-produced plasma. The book (Vol.1) gives the physics of intense-laser absorption in matter and/or plasma in non-relativistic and relativistic laser-intensity regime. In many cases, it is explained with clear images of physics so that an intuitive understanding of individual physics is possible for non-specialists. For intense-laser of 10¹³-16 W/cm², the laser energy is mainly absorbed via collisional process, where the oscillation energy is converted to thermal energy by non-adiabatic Coulomb collision with the ions. Collisionless interactions with the collective modes in plasma are also described. The main topics are the interaction of ultra-intense laser and plasma for the intensity near and over 10¹⁸W/cm². In such regime, relativistic dynamics become essential. A new physics appears due to the relativistic effects, such as mass correction, relativistic nonlinear force, chaos physics of particle motions, and so on. The book

provides clearly the theoretical base for challenging the laser-plasma interaction physics in the wide range of power lasers. It is suitable as a textbook for upper-undergraduate and graduate students as well as for readers who want to understand the whole physics structure about what happens when an intense-laser irradiates any materials including solids, gas etc. Explaining the physics intuitively without complicated mathematics, it is also a valuable resource for engineering students and researchers as well as for self-study.

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