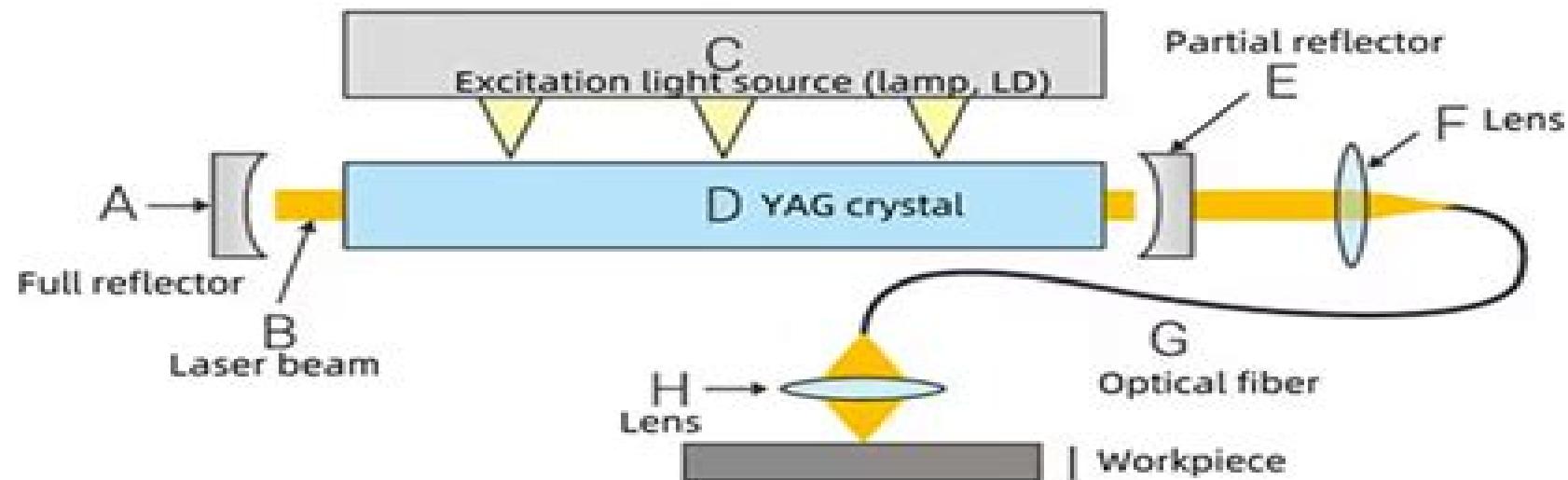
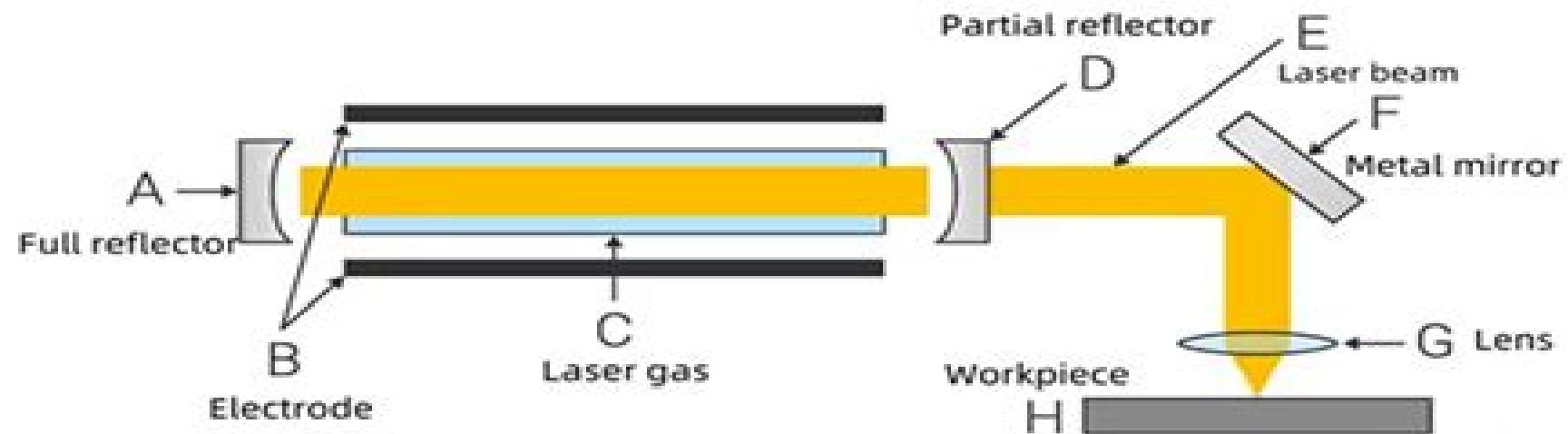


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Solidstate Laser Engineering

Walter Koechner

Solidstate Laser Engineering:

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Solid-State Laser Engineering Walter Koechner,2013-11-11 Solid State Laser Engineering is written from an industrial perspective and discusses in detail the characteristics design construction and practical problems of solid state lasers Emphasis is placed on engineering and practical considerations with a phenomenological treatment using models being preferred to abstract mathematical derivations This new edition has been updated and revised to include important developments concepts and technologies that have emerged since the publication of the first edition

Solid-state Laser Engineering Walter Koechner,1992 This book is written from an industrial perspective and provides a detailed discussion of solid state lasers their characteristics design and construction Emphasis is placed on engineering and practical considerations The book is aimed mainly at the practicing scientist or engineer who is interested in the design or use of solid state lasers but the comprehensive treatment of the subject will make the work useful also to students of laser physics who seek to supplement their theoretical knowledge with engineering information In order to present the subject as clearly as possible phenomenological descriptions using models have been used rather than abstract mathematical descriptions This results in a simplified presentation The descriptions are enhanced by the inclusion of numerical and technical data tables and graphs This new edition has been updated and revised to take account of important new developments concepts and technologies that have emerged since the publication of the first and second editions

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Solid-State Lasers Walter Koechner,Michael Bass,2006-05-29 Solid state lasers have seen a fast and steady development and are the ubiquitous tool both for research and industrial applications The author s monograph Solid State Lasers has become the most used reference book in this area The present graduate text on solid state lasers takes advantage of this rich source by focusing on the needs at the graduate level and those who need an introduction Numerous exercises with hints for solution new text and updated material where needed make this text very accessible

Solid State Laser Engineering Walter Koechner,1975 *Solid-state Laser Engineering* W. Koechner, *The Physics and Engineering of Solid State Lasers* Yehoshua Y. Kalisky,2006 This text explains the mutual influences between the physical and dynamic processes in solids and their lasing properties It provides insight into the physics and engineering of solid state lasers by integrating information from several disciplines including solid state physics materials science photophysics and dynamic processes in solids The text discusses approaches to developing new laser materials and includes data tables of basic parameters that can be applied to laser design Novel materials and techniques used in recent developments are also covered

Solid-state Lasers Thomas O. Hardwell,2008 A solid state laser use and gain medium that is a solid rather than a liquid such as dye lasers or a gas such as gas lasers Semiconductor based lasers are also in the solid state but are generally considered separately from solid state lasers Generally the active medium of a solid state laser consists of a glass or crystalline host material to which is added a dopant such as neodymium chromium erbium or other ions Many of the common dopants are rare earth elements because the excited states of such ions are not strongly coupled with thermal vibrations of the crystalline lattice phonons and the lasing threshold can be reached at relatively low brightness of pump There are many hundreds of solid state media in which laser action has been achieved but relatively few types are in widespread use Of these probably the most common type is neodymium doped YAG Neodymium doped glass Nd glass and Ytterbium doped glasses and ceramics are used in solid state lasers at extremely high power terawatt scale high energy megajoules multiple beam systems for inertial confinement fusion Titanium doped sapphire is also widely used for its broad tunability This book gathers new research in the field *Solid State Laser* Amin Al-Khursan,2012-02-17 This book deals with theoretical and experimental aspects of solid state lasers including optimum waveguide design of end pumped and diode pumped lasers Nonlinearity including the nonlinear conversion up frequency conversion and chirped pulse oscillators are discussed Some new rare earth doped lasers including double borate and halide crystals and feedback in quantum dot semiconductor nanostructures are included *Handbook of Solid-State Lasers* Peter Cheo,1988-11-29 Provides information on both state of the art technology and fundamental principles of fully developed solid state lasers emphasizing their operational characteristics and physical properties Six contributions discuss theories and techniques of III V semiconductor diode lasers

describe various types of lasers. *Solid State Lasers*, 2004. *Military Laser Technology and Systems* David H. Titterton, 2015-03-01. This new resource provides an insight into the physical principles of the device technology that underpins many laser based military systems in one form or another. From this knowledge a deeper understanding of the fundamental requirements and the potential performance as well as limitations of such systems may be assessed given the appropriate operational parameters. Engineers and students are provided with practical advice on how to evaluate laser devices and systems operate them safely and train with them. *Crystal-Field Engineering of Solid-State Laser Materials* Brian Henderson, Ralph H. Bartram, 2005-08-22. This book examines the underlying science and design of laser materials. It emphasizes the principles of crystal field engineering and discusses the basic physical concepts that determine laser gain and nonlinear frequency conversion in optical crystals. Henderson and Bartram develop the predictive capabilities of crystal field engineering to show how modification of the symmetry and composition of optical centers can improve laser performance. They also discuss applications of the principles of crystal field engineering to a variety of optical crystals in relation to the performances of laser devices. This book will be of considerable interest to physical, chemical and material scientists and to engineers involved in the science and technology of solid state lasers. *Mode-locked and Solid State Lasers, Amplifiers, and Applications* Michel Piché, Paul W. Pace, 1994. *Solid State Laser Technologies and Femtosecond Phenomena* W. Andrew Clarkson, 2004. Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Solid-State Lasers for Materials Processing Reinhard Iffländer, 2001-01-18. From the reviews: Takes the reader on a journey that covers all the basic science and engineering related to the topic of developing a solid state laser for common materials processing problems. Entrants to the field will certainly find it a book to keep for future reference. *Optics Photonic News* *Solid State Lasers and Amplifiers*, 2006. *Optical Engineering*, 2004. Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology. *Basics of Laser Physics* Karl F. Renk, 2012-02-09. Basics of Laser Physics provides an introductory presentation of the field of all types of lasers. It contains a general description of the laser, a theoretical treatment and a characterization of its operation as it deals with gas, solid state, free electron and semiconductor lasers and furthermore with a few laser related topics. The different subjects are connected to each other by the central principle of the laser, namely that it is a self oscillating system. Special emphasis is put on a uniform treatment of gas and solid state lasers on the one hand and semiconductor lasers on the other hand. The discussions and the treatment of equations are presented in a way that a reader can immediately follow. The book addresses undergraduate and graduate students of science and engineering. Not only should it enable instructors to prepare their lectures but it can be helpful to students for preparing for an examination.

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