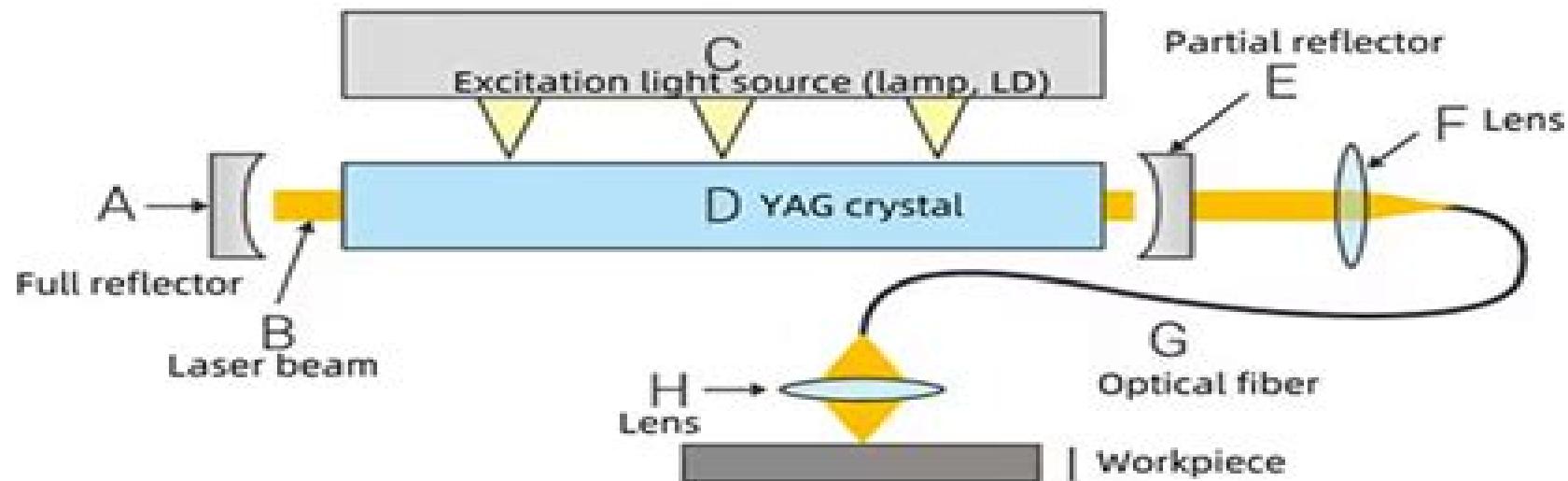
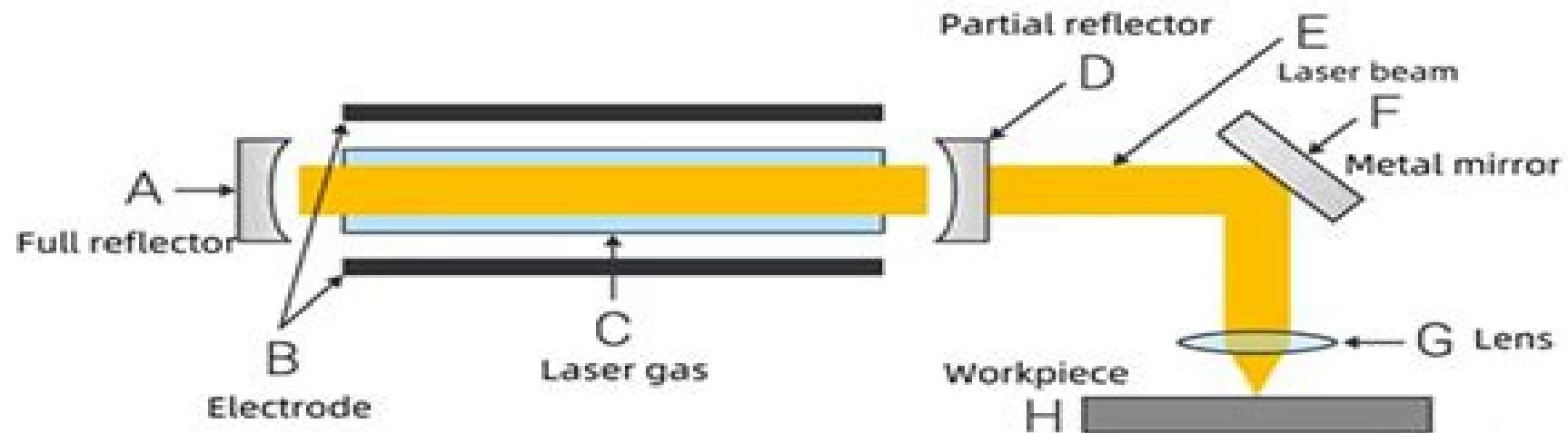


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# Solidstate Laser Engineering

**Reinhard Iffländer**

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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

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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 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

### **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

**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 ty

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**Basics of Laser Physics** Karl F. Renk,2017-03-30 This textbook provides an introductory presentation 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 This expanded and updated second edition of the book presents a description of the dynamics of free electron laser oscillation using a model introduced in the first edition that allows a reader to understand basic properties of a free electron laser and makes the difference to conventional lasers The discussions and the treatment of equations are presented in a way that a reader can immediately follow The book addresses graduate and undergraduate students in science and engineering featuring problems with solutions and over 400 illustrations    *Solid State Lasers and Amplifiers* ,2006    [Emerging Nuclear Energy Ststems: Icenes '93 - Proceedings Of The Seventh International Conference](#) H Yasuda,1994-04-27 To overcome the problems of system theory and network theory over real field this book uses matrices over the field  $F_z$  of rational functions in multi parameters describing coefficient matrices of

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