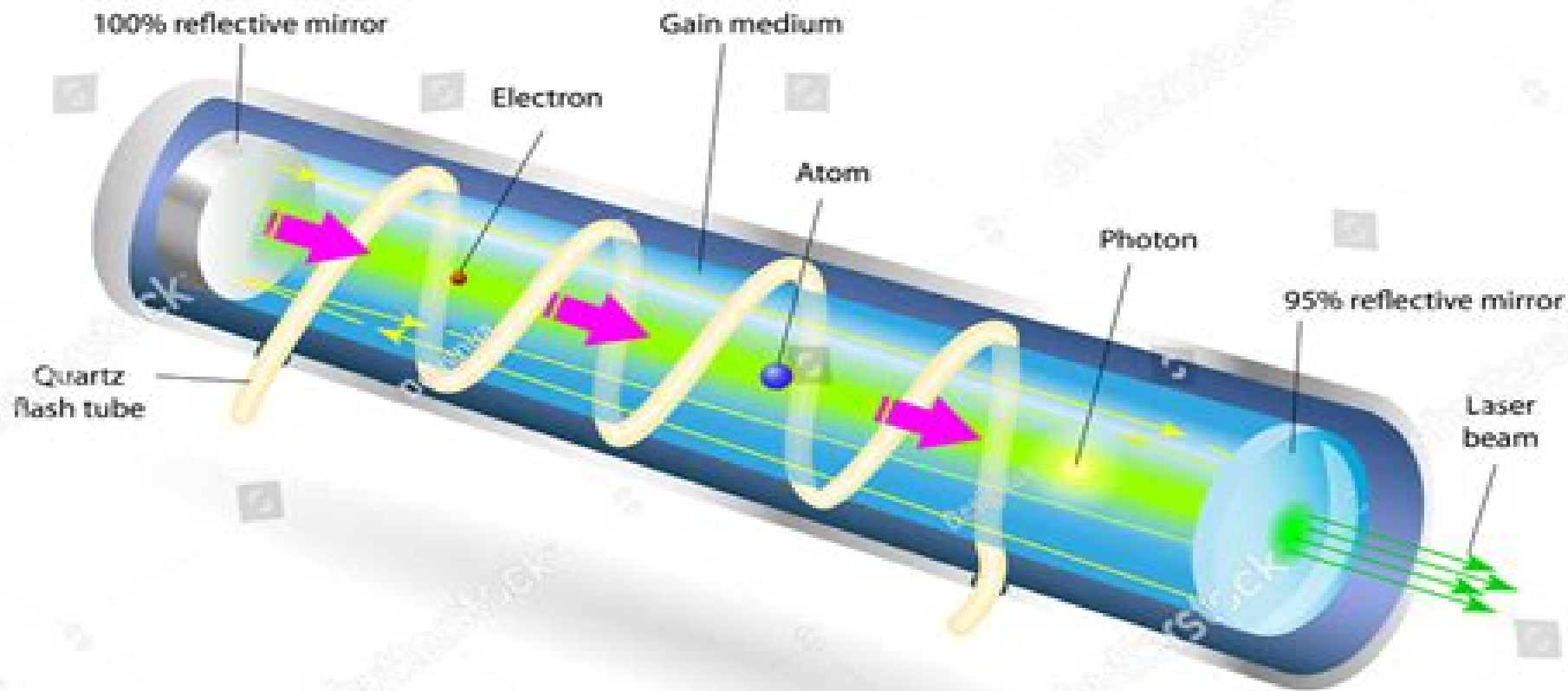


HOW A LASER WORKS



Physics Of Laser Crystals

Joacim Rocklöv



Physics Of Laser Crystals:

Physics of Laser Crystals Jean-Claude Krupa, Nicolay A. Kulagin, 2003-11-30 Physics of laser crystals has been constantly developing since the invention of the laser in 1960 Nowadays more than 1500 wide band gap and semiconductors crystals are suitable for the production of the laser effect Different laser devices are widely used in science medicine and communication systems according to the progress achieved in the development of laser crystal physics Scintillators for radiation detection also gained benefit from these developments Most of the optically active materials offer laser radiations within the 500 to 3000 nm region with various quantum efficiency which fit the usual applications However new crystals for laser emissions are needed either in the blue UV and VUV region or far IR region especially for medicine computer microchip production and for undiscovered practical uses Scientific problems of the growth and properties of laser crystals are discussed in numerous books and scientific journals by many scientists working in the field Therefore we thought that joint discussions of the scientific and technical problems in laser physics will be useful for further developments in this area We have proposed to held a Workshop on Physics of Laser Crystals for attempting to induce additional advances especially in solid state spectroscopy This NATO Advanced Research Workshop ARW was hold in Kharkiv Stary Saltov th nd Ukraine on august 26 September 2 2002 and was mainly devoted to the consideration 0 f modem approaches and last results in physics of laser crystals

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emission channels It was also possible to increase the number of reference citations The reader of the second edition hence has access to more complete data on insulating laser crystals However sections on laser crystal physics have not been updated because a satisfactory description of the progress made in the last ten years in this field would have required the sections to be extended enormously or even a new book to be written Moscow July 1989 ALEXANDER A KAMINSKII Preface to the First Edition The greatest reward for an author is the feeling of satisfaction he gets when it becomes clear to him that readers find his work useful After my book appeared in the USSR in 1975 I received many letters from fellow physicists including colleagues from Western European countries and the USA

Crystalline Lasers Alexander Kaminskii, 2020-09-10 By the end of the 1970s crystalline lasers were widely used in science engineering medicine and technology The types of lasers used have continued to grow in number to include newly discovered crystalline hosts previously known compounds generating at other spectral wavelengths and broadband tunable stimulated emission This has led to the creation of an extremely promising new generation of crystalline lasers that are both highly efficient and more reliable The major part of this book is devoted to describing multilevel operating laser schemes for stimulated emission excitation in insulating crystals doped with lanthanide ions The first part of Crystalline Lasers deals with the history of the physics and spectroscopy of insulating laser crystals The chapters in the second part of the book present results from the study of Stark energy levels of generating ions in laser crystals and their radiative and nonradiative intermanifold transition characteristics This section includes extensive tabular data and reference information Popular and novel operating schemes of crystalline lasers are covered in Part 3 In the chapters in the fourth part of the book the newest technologies in the physics and engineering of crystalline lasers are considered The results of investigations into laser action under selective excitations miniature crystalline lasers and the properties of nonlinear activated laser crystals are presented and analyzed Crystalline Lasers summarizes and reviews the results of many years of research and studies of activator ions and multilevel operating laser schemes and discusses exciting prospects of using these systems to create new types of crystalline lasers This book will be of use to laser scientists and engineers physicists and chemical engineers

Laser Crystals Aleksandr Aleksandrovich Kaminskiĭ, 1981 The greatest reward for an author is the feeling of satisfaction he gets when it becomes clear to him that readers find his work useful After my book appeared in the USSR in 1975 I received many letters from fellow physicists including colleagues from Western European countries and the USA Some of those letters as well as official reviews of the book made specific suggestions for improving the book The satisfaction I derived from all those kind and warm responses gave me the determination to continue work on the book in order to fulfill these wishes in the next edition This possibility arose when one of the scientific editors from Springer Verlag Heidelberg H Latsch who is the founder of the well known series of quasi monographs Topics in Applied Physics visited our Institute and suggested an English edition of my book For all this and for his subsequent help I am sincerely thankful I consider it my pleasant duty also to express my gratitude to the

American physicist H F Ivey who served as scientific editor of the translation The English version of the book retains the structure of the Russian edition though it is supplemented with many new data in the tables and figures It reflects trends in the development of the physics and spectroscopy of laser crystals in recent years Crystalline Lasers Alexander Kaminskii,1996-02-21 By the end of the 1970s crystalline lasers were widely used in science engineering medicine and technology The types of lasers used have continued to grow in number to include newly discovered crystalline hosts previously known compounds generating at other spectral wavelengths and broadband tunable stimulated emission This has led to the creation of an extremely promising new generation of crystalline lasers that are both highly efficient and more reliable The major part of this book is devoted to describing multilevel operating laser schemes for stimulated emission excitation in insulating crystals doped with lanthanide ions The first part of Crystalline Lasers deals with the history of the physics and spectroscopy of insulating laser crystals The chapters in the second part of the book present results from the study of Stark energy levels of generating ions in laser crystals and their radiative and nonradiative intermanifold transition characteristics This section includes extensive tabular data and reference information Popular and novel operating schemes of crystalline lasers are covered in Part 3 In the chapters in the fourth part of the book the newest technologies in the physics and engineering of crystalline lasers are considered The results of investigations into laser action under selective excitations miniature crystalline lasers and the properties of nonlinear activated laser crystals are presented and analyzed Crystalline Lasers summarizes and reviews the results of many years of research and studies of activator ions and multilevel operating laser schemes and discusses exciting prospects of using these systems to create new types of crystalline lasers This book will be of use to laser scientists and engineers physicists and chemical engineers *Investigation of Crystal Imperfections by Means of Laser Light Scattering* Richard Conger Powell,1967 The use of light scattering as a method for studying imperfections in crystals is discussed A unique apparatus using a laser as a light source for ultramicroscopy and angular scattering experiments is described The results obtained utilizing this apparatus for investigations of imperfections in ruby crystals are presented and discussed These investigations were done as a function of crystal growth direction annealing boule morphology polarization chromium concentration gamma irradiation and temperature The results of this work demonstrate the usefulness of this new equipment as a convenient nondestructive technique for characterizing imperfections in crystals of relatively large size They also indicate the existence of both randomly distributed scatterers and oriented scattering regions in ruby crystals and show how these scattering centers are altered by changes in the various parameters studied in this investigation Author **Nonlinear Optical Crystals: A Complete Survey** D. N. Nikogosian,2005-01-04 Nonlinear Optical Crystals contains the most complete and up to date reference material on properties of nonlinear optical crystals including Traditional and specific applications The mathematical formulas necessary for the calculation of the frequency conversion process A survey of 63 nonlinear optical crystals containing more than 1500 different references with

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Applied Physics ,1982-05 *Handbook of Laser Science and Technology* Marvin J. Weber,1990-12-13 This book updates Volumes I and II of the Handbook of Laser Science and Technology Together these three volumes constitute a comprehensive listing of lasers and laser transitions and should be an important reference for all scientists and engineers working in the area of laser research and development In the Handbook of Laser Science and Technology Supplement 1 Lasers experts summarize the discovery of new lasers and the latest advances in various types of solid state lasers organic dye and inorganic liquid lasers neutral ionized and molecular gas lasers and masers The book also includes recent developments in X ray lasers free electron lasers tunable solid state lasers and fiber lasers Key features of the supplement are its tables of gas and solid state lasers arranged by wavelength so researchers can quickly find laser wavelengths for specific applications Extensive references to the primary literature are provided throughout this supplement **Photonic Crystals: Physics and Technology** Concita Sibilia,Trevor M. Benson,Marian Marciniak,Tomasz Szoplik,2008-09-18 The aim of the work is give an overview of the activity in the field of Photonic Crystal developed in the frame of COST P11 action The main objective of the COST P11 action was to unify and coordinate national efforts aimed at studying linear and nonlinear optical interactions with Photonic Crystals PCs without neglecting an important aspect related to the material research as idea and methods of realizations of 3D PC together with the development and implementation of measurement techniques for the experimental evaluation of their potential applications in different area as for example telecommunication with novel optical fibers lasers nonlinear multi functionality display devices opto electronics sensors The book contains contributions from authors who gave their lecture at the Cost P11 Training School **Summaries of Papers Presented at the Conference on Lasers and Electro-optics** ,1997 *Technical Abstract Bulletin* ,1964 [Solid State Lasers and New Laser Materials](#) V. V. Osiko,Artur Afanas'evich Mak,Arkadii Z. Grasiuk,1992 *U.S. Government Research Reports* ,1964 **Nature** Sir Norman Lockyer,1869 [Handbook of Nonlinear Optical Crystals](#) Valentin G. Dmitriev,Gagik G. Gurzadyan,David N. Nikogosyan,2014-03-12 Four years ago when we had finished our work on the first edition of our

Handbook we didn't even suppose that three years later it would become necessary to greatly revise and update the material. It happened because of the following developments: 1 The invention and tremendous development of modern nonlinear optical crystals such as BBO, LBO, KTP, ZnGeP, etc. 2 Rapid progress in laser techniques: femtosecond CPM laser, Ti:sapphire laser, diode pumped solid state lasers, etc. 3 The appearance of numerous organic crystals which can be synthesized with predictable properties. 4 Progress in the theory of nonlinear frequency conversion utilizing biaxial crystals, femtosecond pulses, etc. 5 Accumulation of new data on the properties of nonlinear optical crystals. In accordance with the above, we have made many changes in the text. The first chapter was revised by D. N. Nikogosyan, the second one by V. G. Dmitriev and D. N. Nikogosyan, and the fourth one by G. G. Gurzadyan. The third chapter containing the main reference material on 77 nonlinear optical crystals was completely rewritten and updated by D. N. Nikogosyan. The Appendix containing the list of most commonly used laser wavelengths was compiled by D. N. Nikogosyan. We would appreciate any valuable comments and recommendations that will allow us to further improve the Handbook. We would like to thank H. K. V. Lotsch for fruitful and long lasting cooperation. **Soviet Physics, Doklady**, 1992 *Physics Briefs*, 1989

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