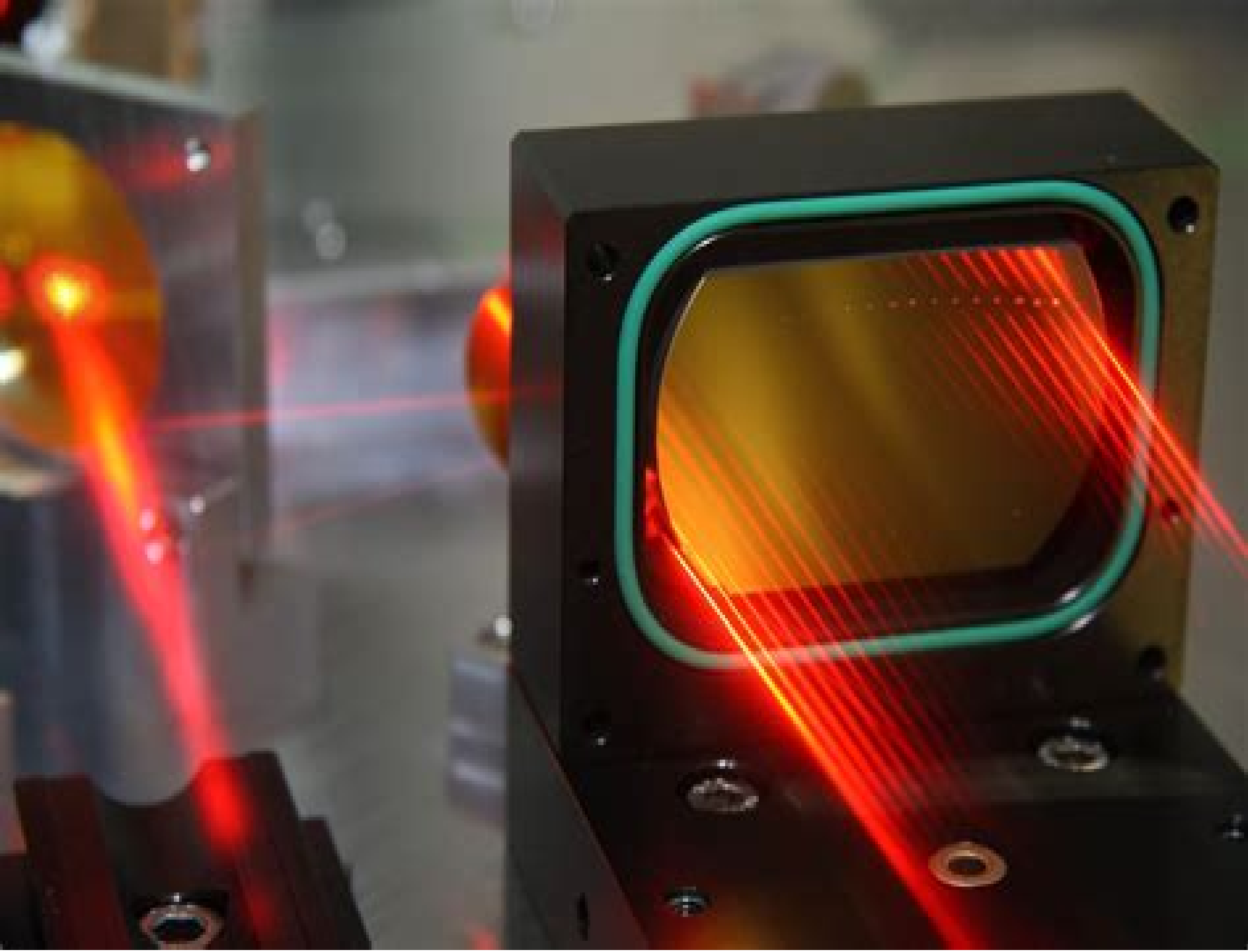




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Optical Properties of 3d-Ions in Crystals Nicolae M. Avram, Mikhail G. Brik, 2013-05-13 Optical Properties of 3d Ions in Crystals Spectroscopy and Crystal Field Analysis discusses spectral vibronic and magnetic properties of 3d ions in a wide range of crystals used as active media for solid state lasers and potential candidates for this role Crystal field calculations including first principles calculations of energy levels and absorption spectra and their comparison with experimental spectra the Jahn Teller effect analysis of vibronic spectra materials science applications are systematically presented The book is intended for researchers and graduate students in crystal spectroscopy materials science and optical applications Dr N M Avram is an Emeritus Professor at the Physics Department West University of Timisoara Romania Dr M G Brik is a Professor at the Institute of Physics University of Tartu Estonia Laser Crystals Alexander A. Kaminskii, 2013-06-29 It was a greatest pleasure for me to learn that Springer Verlag wished to produce a second edition of my book In this connection Dr H Lotsch asked me to send him a list of misprints mistakes and inaccuracies that had been noticed in the first edition and to make corresponding corrections without disturbing the layout or the typography too much I accepted this opportunity with alacrity and moreover found some free places in the text where I was able to insert some concise up to date information about new lasing compounds and stimulated 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 Laser Crystals A. A. Kaminskii, 2013-12-19 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 Advances in Spectroscopy for Lasers and Sensing Baldassare Di Bartolo, Ottavio Forte, 2006-07-21 This volume presents the Proceedings of New Development in Optics and Related Fields held in Italy in June 2005 This meeting was organized by the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Center for Scientific Culture The purpose of this Institute was to provide a comprehensive and coherent treatment of the new techniques and contemporary developments in optics and related fields

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