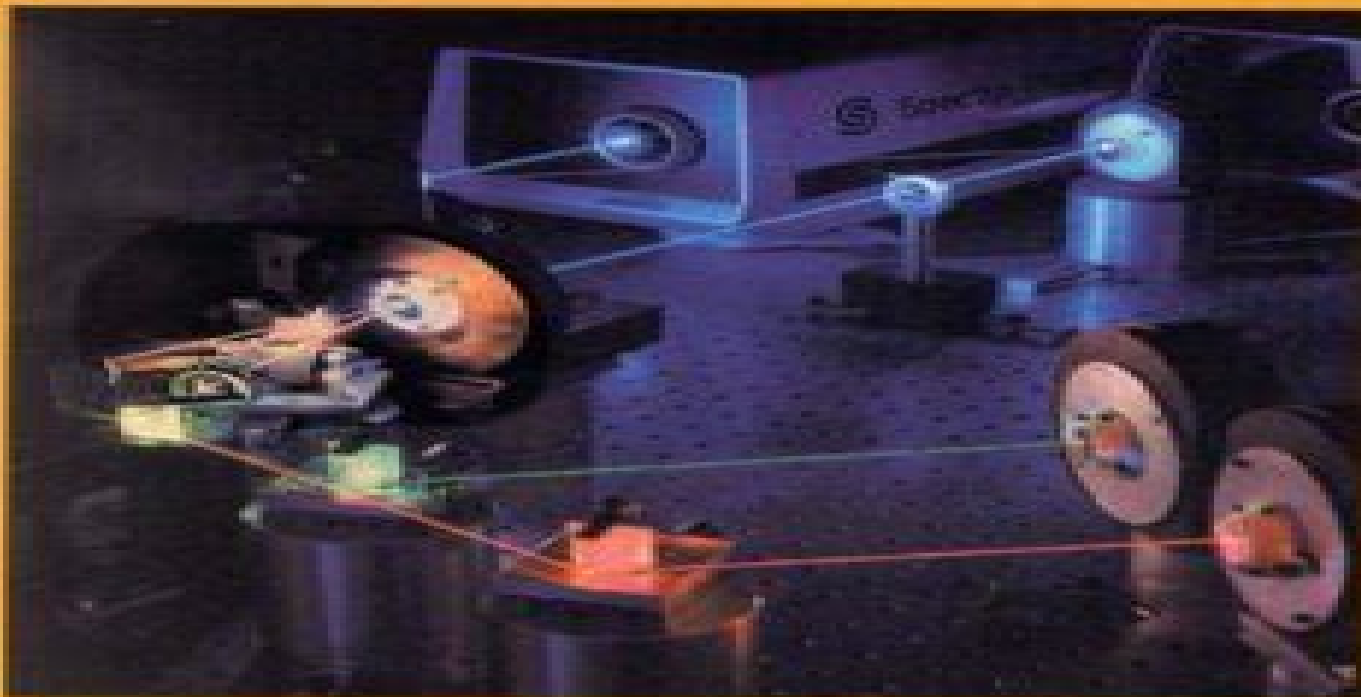


CAMBRIDGE STUDIES IN MODERN OPTICS

# Crystal-Field Engineering of Solid-State Laser Materials



BRIAN HENDERSON & RALPH H. BARTRAM

# Crystal Field Engineering Of Solid State Laser Materials

**Zundu Luo, Yidong Huang**



## **Crystal Field Engineering Of Solid State Laser Materials:**

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

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 Engineering Walter Koechner, 2006 Written from an industrial perspective Solid State Laser Engineering 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 new edition has been extensively revised and updated to account for recent developments in the areas of diode laser pumping laser materials and nonlinear crystals Completely new sections have been added dealing with frequency control the theory of mode locking femto second lasers high efficiency harmonic generation passive and acousto optic Q switching semiconductor saturable absorber mirrors SESAM and periodically poled nonlinear crystals

**Physics of Solid-State Laser Materials** Richard C. Powell, 1998-03-27 This graduate level text presents the fundamental physics of solid state lasers including the basis of laser action and the optical and electronic properties of laser materials After an overview of the topic the first part begins with a review of quantum mechanics and solid state physics spectroscopy and crystal field theory it then treats the quantum theory of radiation the emission and absorption of radiation and nonlinear optics concluding with discussions of lattice vibrations and ion ion interactions and their effects on optical properties and laser action The second part treats specific solid state laser materials the prototypical ruby and Nd YAG systems being treated in greatest detail and the book concludes with a discussion of novel and non standard materials Some knowledge of quantum mechanics and solid state physics is assumed but the discussion is as self contained as possible making this an excellent reference as well as useful for independent study

Physics of Solid-State Laser Materials Zundu Luo, Yidong Huang, 2020-04-07 This book discusses the spectral properties of solid state laser materials including emission and absorption of light the law of radiative and nonradiative transitions the selection rule for optical transitions and different calculation methods of the spectral parameters The book includes a systematic presentation of the authors own research works in this field specifically addressing the stimulated nonradiative transition theory and the apparent crystal field model This volume is helpful resource for researchers and graduate students in the fields of solid spectroscopy and solid state laser material physics while also serving as a valuable reference guide for instructors and advanced students of physics

**Optical Properties of Solids** Mark Fox, 2010-03-26 The second edition of this successful textbook provides an up to date account of the optical physics of solid state materials The basic principles of absorption reflection luminescence and light scattering are covered for a wide range of materials including insulators semiconductors and metals The text starts with a review of classical optics and then moves on to the treatment of optical transition rates by quantum theory In addition to the traditional discussion of crystalline materials glasses and molecular solids are also covered The first edition included a number of subjects that are not normally covered in standard texts notably semiconductor quantum wells molecular materials vibronic solid state lasers and nonlinear optics The basic structure of the second edition is unchanged but all of the chapters have been updated and improved Furthermore a number of important new topics have been added including Optical control of spin Quantum dots Plasmonics Negative refraction Carbon nanostructures graphene nanotubes and fullerenes NV centres in diamond The text is aimed at final year undergraduates masters students and researchers It is mainly written for physicists but might also be useful for electrical engineers materials scientists and physical chemists The topics are written in a clear tutorial style with worked examples chapter summaries and exercises A solutions manual is available on request for instructors

**Few-Cycle Laser Pulse Generation and Its Applications** Franz X. Kärtner, 2004-09-14 This book covers the physics technology and applications of short pulse laser sources that generate pulses with durations of only a few optical cycles The basic design considerations for the different systems such as lasers parametric amplifiers and external compression techniques which have emerged over the last decade are discussed to give researchers and graduate students a thorough introduction to this field The existence of these sources has opened many new fields of research that were not possible before These are UV and EUV generation from table top systems using high harmonic generation frequency metrology enabling optical frequency counting high resolution optical coherence tomography strong field ultrafast solid state processes and ultrafast spectroscopy to mention only a few Many new applications will follow The book attempts to give a comprehensive while not excessive introduction to this exciting new field that serves both experienced researchers and graduate students entering the field The first half of the book covers the current physical principles processes and design guidelines to generate pulses in the optical range comprising only a few cycles of light Such as the generation of relatively low energy pulses at high repetition rates directly from the laser

parametric generation of medium energy pulses and high energy pulses at low repetition rates using external compression in hollow fibers The applications cover the revolution in frequency metrology and high resolution laser spectroscopy to electric field synthesis in the optical range as well as the emerging field of high harmonic generation and attosecond science high resolution optical imaging and novel ultrafast dynamics in semiconductors These fields benefit from the strong electric fields accompanying these pulses in solids and gases during events comprising only a few cycles of light      **Ceramic Lasers** Akio Ikesue, Yan Lin Aung, Voicu Lupei, 2013-05-23 Invaluable guide for physicists materials scientists and engineers working on laser ceramics co authored by a pioneer of the subject      Transparent Ceramics Ling Bing Kong, Y. Z. Huang, W. X. Que, T. S. Zhang, S. Li, J. Zhang, Z. L. Dong, D. Y. Tang, 2015-05-07 This book covers the latest progress in the field of transparent ceramics emphasizing their processing as well as solid state lasers It consists of 10 chapters covering the synthesis characterization and compaction fundamentals of sintering densification of transparent ceramics by different methods as well as transparent ceramic applications This book can be used as a reference for senior undergraduate to postgraduate students researchers engineers and material scientists working in solid state physics      **Solid State Lasers** , 1996      **Scientific and Technical Aerospace Reports** , 1965 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database      *Encyclopedia of Modern Optics* Bob D. Guenther, Duncan Steel, 2018-02-14 The Encyclopedia of Modern Optics Second Edition Five Volume Set provides a wide ranging overview of the field comprising authoritative reference articles for undergraduate and postgraduate students and those researching outside their area of expertise Topics covered include classical and quantum optics lasers optical fibers and optical fiber systems optical materials and light emitting diodes LEDs Articles cover all subfields of optical physics and engineering such as electro optical design of modulators and detectors This update contains contributions from international experts who discuss topics such as nano photonics and plasmonics optical interconnects photonic crystals and 2D materials such as graphene or holy fibers Other topics of note include solar energy high efficiency LED s and their use in illumination orbital angular momentum quantum optics and information metamaterials and transformation optics high power fiber and UV fiber lasers random lasers and bio imaging Addresses recent developments in the field and integrates concepts from fundamental physics with applications for manufacturing and engineering design Provides a broad and interdisciplinary coverage of specialist areas Ensures that the material is appropriate for new researchers and those working in a new sub field as well as those in industry Thematically arranged and alphabetically indexed with cross references added to facilitate ease of use      **The Encyclopedia of Advanced Materials** David Bloor, 1994      **Romanian Journal of Physics** , 2006      *Physics of Solid-State Laser Materials* Richard C. Powell, 2013-09-14 This graduate level text presents the fundamental physics of solid state lasers including the basis of laser action and the optical and electronic properties of laser materials After an overview of the topic the first part begins with a

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Fundamentals of Photonics Bahaa E. A. Saleh, Malvin Carl Teich, 2007-03-09 Fundamentals of Photonics A complete thoroughly updated full color second edition Now in a new full color edition Fundamentals of Photonics Second Edition is a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a logical blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of photons and atoms and semiconductor optics Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography guided wave and fiber optics semiconductor sources and detectors electro optic and acousto optic devices nonlinear optical devices optical interconnects and switches and optical fiber communications Each of the twenty two chapters of the first edition has been thoroughly updated The Second Edition also features entirely new chapters on photonic crystal optics including multilayer and periodic media waveguides holey fibers and resonators and ultrafast optics including femtosecond optical pulses ultrafast nonlinear optics and optical solitons The chapters on optical interconnects and switches and optical fiber communications have been completely rewritten to accommodate current technology Each chapter contains summaries highlighted equations exercises problems and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest

*Proceedings of the International Workshop on Application of Submillimeter Wave Electron Spin Resonance for Novel Magnetic Systems* Hitoshi Ohta, 2003      Materials World ,2000      **Lasers in Surface Engineering** Narendra B. Dahotre, 1998 Presents various facets of laser surface treatment emphasizing technologies that are expected to be important soon The topics include fundamentals and types surface texturing heat treatment metallic and intermetallic coating the laser deposition of ceramic coatings polymeric coatings the cor      Advances in Technologically Important Crystals Binay Kumar, R. P. Tandon, 2007 Good quality single crystals are the backbone of emerging technological world There is a growing need to improve growth and characterization techniques and to grow high performance crystals for application purposes Post growth treatments can enhance the

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