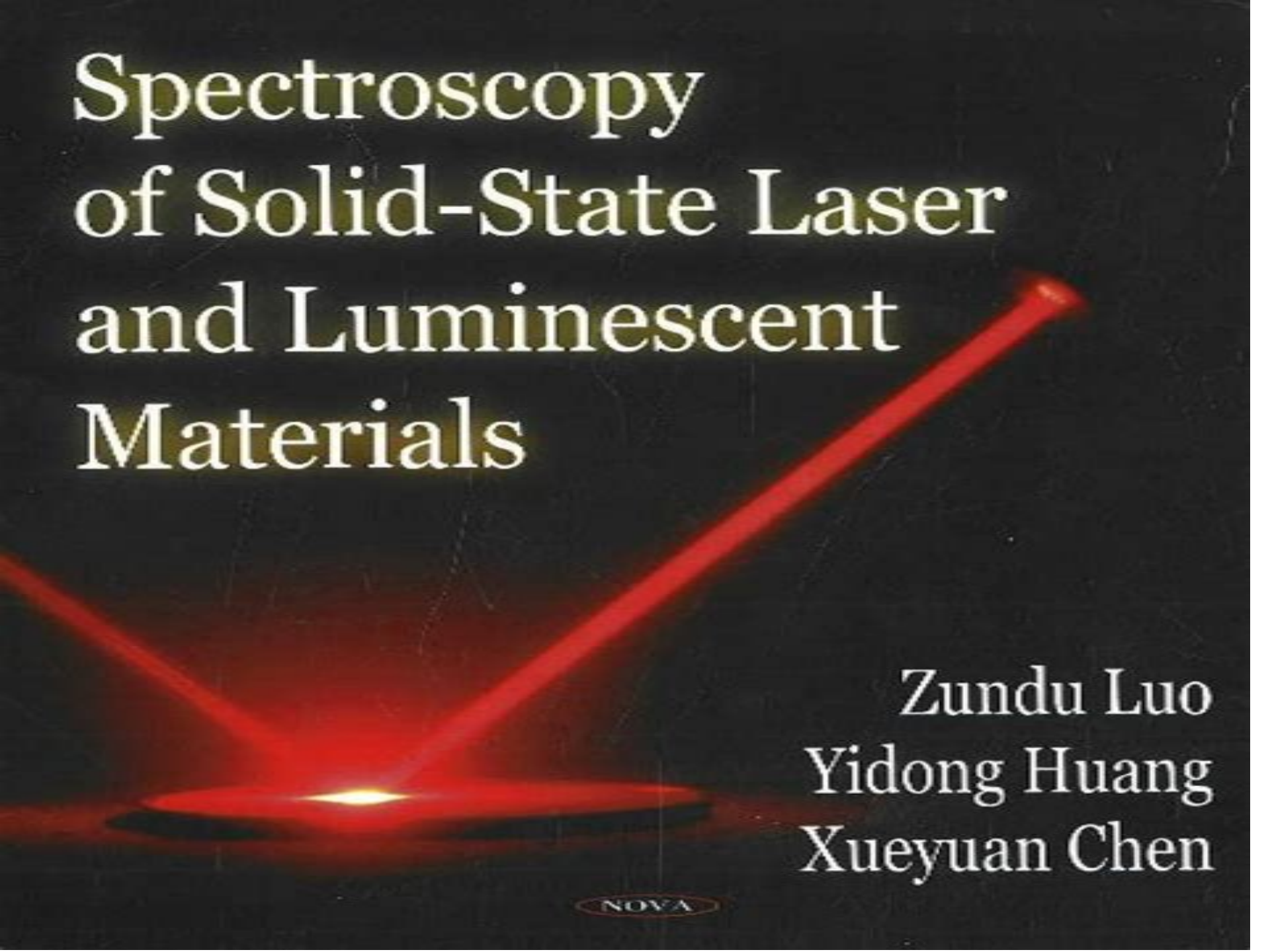


Spectroscopy of Solid-State Laser and Luminescent Materials



Zundu Luo
Yidong Huang
Xueyuan Chen

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Luminescence And The Solid State

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Luminescence And The Solid State:

Luminescence and the Solid State Richard C. Ropp, 2004-05-06 Since the first date of publication of this book in 1991 the subject of phosphors and luminescence has assumed even more importance in the overall scheme of technological development Many new types of displays have appeared which depend upon phosphors in their operation Some of these were pure conjecture in 1991 but are a reality in 2004 Descriptions have been included of the newer as well as the older types of displays in this edition along with an annotated portrait of the phosphors used in each category Many of these new light sources promise to displace and make obsolete our current light sources such as incandescent lamps fluorescent lamps and the ubiquitous colour Cathode Ray Tube now used in TV and computer monitors The importance of solid state science are summarized in the introductory chapters of this edition and many of the chapters have been completely rewritten or revised Each chapter has a special contribution to make in the overall understanding of the solid state science of phosphors and luminescence Introduces the reader to the science and art of preparing inorganic luminescent materials Describes how and why luminescent materials exhibit such specific intrinsic properties Describes the science of the solid state and presents the exact formulas and conditions required to make all of the phosphors known at that time *Luminescence in the Solid State* Rupert Bowen Harris, 1959 *Solid State Luminescence* A.H. Kitai, 2012-12-06 Historically black body radiation in the tungsten filament lamp was our primary industrial means for producing artificial light as it replaced gas lamps Solid state luminescent devices for applications ranging from lamps to displays have proliferated since then particularly owing to the development of semiconductors and phosphors Our lighting products are now mostly phosphor based and this cold light is replacing an increasing fraction of tungsten filament lamps Even light emitting diodes now challenge such lamps for automotive brake lights In the area of information displays cathode ray tube phosphors have proved themselves to be outstandingly efficient light emitters with excellent colour capability The current push for flat panel displays is quite intense and much confusion exists as to where development and commercialization will occur most rapidly but with the need for colour it is now apparent that solid state luminescence will play a primary role as gas phase plasma displays do not conveniently permit colour at the high resolution needed today The long term challenge to develop electroluminescent displays continues and high performance fluorescent lamps currently illuminate liquid crystal monochrome and colour displays The development of tri component rare earth phosphors is of particular importance Principles of the Solid State H. V. Keer, 1993 Uses an integrated scientists approach to the principles regulating the synthesis structure and physical characteristics of crystalline solids Mathematical derivations are kept to a minimum Covers electrical properties of metals and band semiconductors superionic conductors ferrites and solid electrolytes Features end of chapter problem sets *A Review Article on Solid-state Luminescence* Ralph Allan Hewes, Thomas F. Soules, *Solid-State Spectroscopy* Hans Kuzmany, 2013-03-09 Spectroscopic methods have opened up a new horizon in our knowledge of solid state materials

Numerous techniques using electromagnetic radiation or charged and neutral particles have been invented and worked out to a high level in order to provide more detailed information on the solids. In this text, new radiation sources like lasers and synchrotrons are discussed. It provides a description of the linear response together with the basic principles and the technical background for various scattering experiments. Fourier transform spectroscopy, pulsed and magnetic NMR techniques, photo emission and light and electron scattering are elucidated. Each chapter includes problems. The concept of this textbook is designed for graduate students. *ELEMENTS OF SOLID STATE PHYSICS* J.P. SRIVASATAVA, 2014-12-11

This revised and updated Fourth Edition of the text builds on the strength of previous edition and gives a systematic and clear exposition of the fundamental principles of solid state physics. The text covers the topics such as crystal structures and chemical bonds, semiconductors, dielectrics, magnetic materials, superconductors and nanomaterials. What distinguishes this text is the clarity and precision with which the author discusses the principles of physics, their relations as well as their applications. With the introduction of new sections and additional information, the fourth edition should prove highly useful for the students. This book is designed for the courses in solid state physics for B Sc Hons and M Sc students of physics. Besides, the book would also be useful to the students of chemistry, material science, electrical, electronic and allied engineering disciplines. New to the Fourth Edition: Solved examples have been introduced to explain the fundamental principles of physics. Matrix representation for symmetry operations has been introduced in Chapter 1 to enable the use of Group Theory for treating crystallography. A section entitled Other Contributions to Heat Capacity has been introduced in Chapter 5. A statement on Kondo effect minimum has been added in Chapter 14. A section on Graphenes has been introduced in Chapter 16. The section on Carbon Nanotubes in Chapter 16 has been revised. A Lesson on Group Theory has been added as Appendix.

Luminescence Techniques in Solid State Polymer Research Lev Zlatkevich, 1989 *Solid State Physics* R. J. Singh, 2012

Solid state physics forms an important part of the undergraduate syllabi of physics in most of the universities. The existing competing books by Indian authors have too complex technical language which makes them abstractive to Indian students who use English as their secondary language. Solid State Physics is written as per the core module syllabus of the major universities and targets undergraduate B Sc students. The book uses lecture style in explaining the concepts which would facilitate easy understanding of the concepts. The topics have been dealt with precision and provide adequate knowledge of the subject. *Thermoluminescence of Solids* S. W. S. McKeever, 1985. McKeever gives us a comprehensive survey of thermoluminescence, an important versatile and widely used experimental technique. Bringing together previously isolated specialized approaches, he stresses the importance of the solid state aspects of the phenomenon. The book contains chapters on analysis and special properties, instrumentation and on the variety of defect reaction using the alkali halides and SiO₂ as examples that can take place within a material to yield thermoluminescence. Three chapters concerning applications discuss the features of the solid state reactions to explain some of the properties observed in practice. *Luminescence*

Spectroscopy of Semiconductors Ivan Pelant, Jan Valenta, 2012-02-02 Semiconductor luminescence has been a rapidly expanding field over the last 50 years This text reviews the whole subject of semiconductor luminescence in one volume

Solid State Physics, 1978-04-13 *Solid State Physics Phosphors, Up Conversion Nano Particles, Quantum Dots and Their Applications* Ru-Shi Liu, 2016-10-04 This book introduces readers to fundamental information on phosphor and quantum dots It comprehensively reviews the latest research advances in and applications of fluoride phosphors oxide phosphors nitridosilicate phosphors and various quantum dot materials Phosphors and phosphor based quantum dot materials have recently gained considerable scientific interest due to their wide range of applications in lighting displays medical and telecommunication technologies This work will be of great interest to researchers and graduate students in materials sciences and chemistry who wish to learn more about the principles synthesis and analysis of phosphors and quantum dot materials

Advances in Organic Crystal Chemistry Masami Sakamoto, Hidehiro Uekusa, 2020-07-10 This book summarizes and records the recent notable advances in diverse topics in organic crystal chemistry which has made substantial progress along with the rapid development of a variety of analysis and measurement techniques for solid organic materials This review book is one of the volumes that are published periodically on this theme The previous volume published in 2015 systematically summarized the remarkable progress in assorted topics of organic crystal chemistry using organic solids and organic inorganic hybrid materials during the previous 5 years and it has been widely read The present volume also shows the progress of organic solid chemistry in the last 5 years with contributions mainly by invited members of the Division of Organic Crystal Chemistry of the Chemical Society of Japan CSJ together with prominent invited authors from countries other than Japan

Scientific and Technical Aerospace Reports, 1971 Phosphor Handbook Shigeo (deceased) Shionoya, William M. Yen, 1998-09-10 From basic principles of luminescence to innovative technical applications *Phosphor Handbook* will serve as the definitive resource on phosphors Considering all the major changes in the field of phosphors the editors have produced the most current and comprehensive reference available today Contributed by noted worldwide scientists and engineers the handbook serves a ready audience among researchers in the field of luminescence This book completely describes powder phosphors including information on solid state laser materials and organic EL properties and technical applications of phosphors including the principal classes of phosphors procedures to synthesize and manufacture these phosphors manner of deployment and materials that emit light under various kinds of excitation current developments of phosphor materials required in advanced display technologies such as UV Plasma Display and Field Emission Display FED experimental techniques characterizing materials in their initial and final forms Other provisos include tutorials of fundamental physical and chemical properties of phosphor materials descriptions of optical properties of phosphor materials profiles on methods of synthesis and manufacture of all practical phosphors analysis of experimental procedures for the optical characterization of raw phosphors and the creation of display devices or lamps specification of physical and optical

requirements for all applications of phosphors in lighting and display technologies Japanese industry has and will continue to play a key role in developing these applications and many contributors to this volume acted as principals in the progress discussed Display technologies will increase in importance and no cohesive or comprehensive treatise exists from basic to applied on the nature properties synthesis characterization manufacture and handling of phosphor materials in lighting and display technologies and applications This exceptional handbook rectifies this deficiency serving as the defining resource for all those engaged in research or in the application of phosphor materials regardless of whether they are newcomers or veterans in this endeavor

Applications of Physical Methods to Inorganic and Bioinorganic Chemistry Robert A. Scott, Charles M. Lukehart, 2013-02-19 Modern spectroscopic and instrumental techniques are essential to the practice of inorganic and bioinorganic chemistry This first volume in the new Wiley Encyclopedia of Inorganic Chemistry Methods and Applications Series provides a consistent and comprehensive description of the practical applicability of a large number of techniques to modern problems in inorganic and bioinorganic chemistry The outcome is a text that provides invaluable guidance and advice for inorganic and bioinorganic chemists to select appropriate techniques whilst acting as a source to the understanding of these methods This volume is also available as part of Encyclopedia of Inorganic Chemistry 5 Volume Set This set combines all volumes published as EIC Books from 2007 to 2010 representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry Find out more

Nanocomposite, Ceramic, and Thin Film Scintillators Martin Nikl, 2016-11-18 The literature so far has reviewed only single crystal and up to some extent optical ceramic scintillators This book introduces and describes in detail the research and development in thin film scintillators glass ceramics as well as nanocomposite and optical ceramics prepared by spark plasma sintering It also features example of an in depth study of a ZnO based powder phosphor material Both technology description and various characterization aspects are provided together with application hints No other book has been published so far that includes and reviews the scintillator materials covered in this book with their specific technologies Moreover technological description is merged with detailed characterization and the application potential is discussed as well This book is intended for a wide audience including postgraduate and PhD students and scientists working in the field of scintillators and phosphors The extended introductory text which has a textbook character will be of immense benefit to students and non specialists too

Properties and Applications of Perovskite-Type Oxides L.G. Tejuca, J.L.G. Fierro, 2000-10-17 This reference offers an overview of the bulk and surface properties of perovskite like structures and provides the latest discussions on the applications of these materials and processes It also introduces ceramic methods for the processing of perovskite derived high T_c cuprates Examining every available procedure for synthesizing high surface area perovskite oxides this book delineates processing techniques for preparing perovskite derived high critical temperature superconductors illustrates the relevance of physiochemical methods to investigate bulk and surface structures of perovskite

compounds explicates the importance of surface composition in the context of catalytic behaviour summarizes methods of changing stoichiometry shows how to design perovskite oxides for a given purpose reviews key solid state properties and presents the major applications *Handbook of Aggregation-Induced Emission, Volume 2* Youhong Tang, Ben Zhong Tang, 2022-04-04 The second volume of the ultimate reference on the science and applications of aggregation induced emission The Handbook of Aggregation Induced Emission explores foundational and advanced topics in aggregation induced emission as well as cutting edge developments in the field celebrating twenty years of progress and achievement in this important and interdisciplinary field The three volumes combine to offer readers a comprehensive and insightful interpretation accessible to both new and experienced researchers working on aggregation induced emission In Volume 2 Typical AIEgens Design the editors address the design and synthesis of typical AIEgens that have made significant contributions to aggregation induced emission research Recent advances in the development of aggregation induced emission systems are discussed and the book covers novel aggregation induced emission systems in small molecule organogels polymersomes metal organic coordination complexes and metal nanoclusters Readers will also discover A thorough introduction to the synthesis and applications of tetraphenylpyrazine based AIEgens AIEgens based on 9,10-distyrylanthracene and the Salicylaldehyde Schiff base Practical discussions of aggregation induced emission from the sixth main group and fluorescence detection of dynamic aggregation processes using AIEgens Coverage of cyclic triimidazole derivatives and the synthesis of multi phenyl substituted pyrrole based materials and their applications Perfect for academic researchers working on aggregation induced emission this set of volumes is also ideal for professionals and students in the fields of photophysics photochemistry materials science optoelectronic materials synthetic organic chemistry macromolecular chemistry polymer science and biological sciences

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