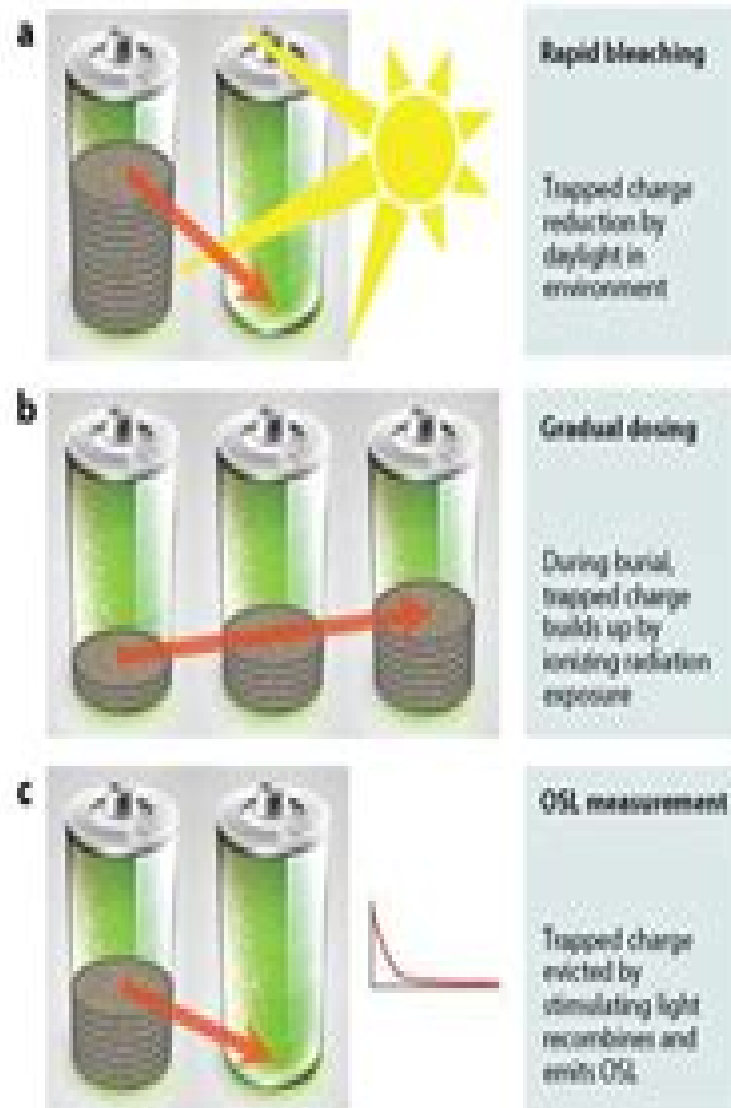


Luminescence in solids

- Luminescence is a property of solids where light is produced from electrons “trapped” in crystal lattice defects.
- These electrons become trapped with exposure to background radiation and escape these traps when given energy through sunlight.



Luminescence Of Solids

Hans Kuzmany



Luminescence Of Solids:

Luminescence of Solids D.R. Vij, 2012-12-06 Luminescence of Solids gathers together much of the latest work on luminescent inorganic materials and new physical phenomena The volume includes chapters covering the achievements that have led to the establishment of the fundamental laws of luminescence light sources light dispersing elements detectors and other experimental techniques models and mechanisms materials preparation and future trends This international collection of cutting edge luminescence research is complemented by over 170 illustrations that bring to life the text s many vital concepts

Some Aspects of the Luminescence of Solids Ferdinand Anne Kröger, 1948 Table of contents I A general consideration of the phenomena of luminescence II Manganese as an activator III Tungstates and molybdates IV Uranium as an activator V Titanium as an activator VI The dependence of the efficiency of luminescence on the temperature Appendices Tables Indexes This book is based on experimental work carried out in the physical laboratory of the N V Philips

Gloeilampenfabrieken Eindhoven Netherlands during the last five years **Luminescence of Solids** D. R. Vij, 1998-06-01

An Introduction to Luminescence of Solids Humboldt W. Leverenz, 1968 Some Aspects of the Luminescence of Solids F. A. Kröger, 1948 *INTRODUCTION TO LUMINESCENCE OF SOLIDS* NEW YORK, 1950 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

Some New Experimental Results and Theoretical Interpretations in the Luminescence of Solids Ferd Elton Williams, 1947 **Theory of Thermoluminescence and Related Phenomena**

Reuven Chen, S. W. S. McKeever, 1997 In this book the authors give an up to date account of thermoluminescence TL and other thermally stimulated phenomena Although most recent experimental results of TL in different materials are described in some detail the main emphasis in the present book is on general processes and the approach is more theoretical Thus the details of the possible processes which can take place during the excitation of the sample and during its heating are carefully

analysed The methods for analysing TL glow curves are critically discussed and recommendations as to their application are made Also discussed is the expected behavior of these phenomena as functions of the experimental parameters for example dose of excitation The consequences of the main applications of TL for example radiation dosimetry are also discussed in detail as are the similarities and dissimilarities of other thermally stimulated phenomena and the simultaneous measurements of the latter and TL Luminescence of Solids Produced by Surface Recombination of Atoms KENNETH M. SANCIER, WILLIAM J. FREDERICKS, HENRY. WISE, STANFORD RESEARCH INST MENLO PARK CALIF., 1961

Luminescence of Liquids and Solids and Its Practical Applications Peter Pringsheim, Marcel Vogel, 1946

Luminescence of Inorganic Solids B. Bartolo, 2012-12-06 These proceedings report the lectures and seminars of a course entitled Luminescence of Inorganic Solids held at Erice Italy June 15 30 1977 This course was an activity of the International School of Atomic and Molecular Spectroscopy of the Ettore Majorana Centre for Scientific Culture The course opened with an overview of the present status of luminescence research and with an assessment of its future trends The following lectures introduced the basic formalism behind the interaction of matter with the radiation field and the lattice phonons The luminescence properties of various classes of inorganic materials were treated next for the specific cases of unfilled shell activators transition metal lanthanide and actinide ions and filled s¹ activators s² and d¹⁰ ions Different models suitable for the description of the luminescence properties of semiconductors were examined next The dynamics of energy transfer and relaxation in the excited state of the activators were treated in lectures devoted to the luminescence phenomena of sensitization concentration quenching and thermal quenching Finally the relevance of luminescence studies to the field of phosphor technology and to the laser field was examined Each lecturer began the treatment of this topic at a fundamental level and finally reached the current level of research The sequence of the lectures was determined by the requirements of a didactical presentation The emphasis of the course was primarily on basic principles The formal lectures were complemented by seminars and discussions **Luminescence and Related Properties of II-VI Semiconductors** D.

R. Vij, N. Singh, 1998 This volume provides the readers an in depth yet concise overview of the physico chemical structures luminescence and related properties of II VI compounds which are being utilised and exhaustively studied these days for their applications in LEDs modern optoelectronic devices flat EL screens and panels infrared detectors photovoltaic and thermal solar energy converters etc The book therefore should be useful to a wide variety of people working in the field of luminescence and related properties of II VI compounds i.e. advanced graduate students and serve as a review to researchers entering in this field and working on these materials It should also be useful to solid state spectroscopists lasers physicists electronic and illuminating engineering people and all those professionals using these materials Fundamental Research on the Luminescence of Solids University of North Carolina (1973-1962). Department of Chemistry, 1949 Luminescence Process of Optically Active Ions in Solids Kailash C. Mishra, Baldassare Di Bartolo, John M. Collins, 2013-11-01 Current

advances in the study of luminescent materials are driven by many factors the emergence of new materials nanostructures more elaborate theoretical models with increased computational power more sophisticated experimental equipment and techniques and the environmentally driven need for high quality more efficient products lighting This book on luminescent materials and processes will be of interest to experimentalists and theorists It covers solid state systems doped with optically active ions These systems are finding applications in lasers scintillators luminophores and opto electronics They also provide a rich array of problems involving the interaction of radiation with matter Appraises theories on radiative and non radiative transitions of optically active ions in solids Provides analytical tools to investigate novel luminescence processes

Luminescence Thermometry Miroslav Dramićanin, 2018-04-21 Luminescence Thermometry Methods Materials and Applications presents the state of the art applications of luminescence thermometry giving a detailed explanation of luminescence spectroscopic schemes for the read out of temperature while also describing the diverse materials that are capable of sensing temperature via luminescence Chapters cover the fundamentals of temperature traditional thermometers and their figures of merit a concise description of optical thermometry methods luminescence and instrumentation and an explanation of the ways in which increases in temperature quench luminescence Additional sections focus on materials utilized for luminescence thermometry and the broad range of applications for luminescence thermometry including temperature measurement at the nanoscale and the application of multifunctional luminescent materials Provides an overview of luminescence thermometry applications including high temperature biomedical nanoscale and multifunctional Delves into luminescence thermometry by materials group including Rare earth and transition Metal Ion Doped Semiconductors Quantum Dots and Organic materials Gives a concise introduction of the latest methods of temperature measurement including luminescence spectroscopic schemes and methods of analysis *Luminescence in Solids Containing Manganese*, 1940 **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 on 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 **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 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

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