

Optically Stimulated Luminescence

FUNDAMENTALS AND APPLICATIONS

EDUARDO G. YUKIHARA | STEPHEN W. S. MCKEEVER

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Optically Stimulated Luminescence Fundamentals And Applications

Makaiko L Chithambo



Optically Stimulated Luminescence Fundamentals And Applications:

Optically Stimulated Luminescence Eduardo G. Yukihara, Stephen W. S. McKeever, 2011-02-16 Optically stimulated luminescence has developed into one of the leading optical techniques for the measurement and detection of ionizing radiation. This text covers in a readable manner advanced modern applications of the technique, how it can play a useful role in different areas of dosimetry, and how to approach the challenges presented when working with optically stimulated luminescence. The six chapters are as follows: Introduction including a short history of OSL and details of successful applications; Theory and Practical Aspects; Personal Dosimetry; Space Dosimetry; Medical Dosimetry; Other Applications and Concepts including retrospective and accident dosimetry, environmental monitoring, and UV dosimetry. Throughout the book, the underlying theory is discussed on an as-needed basis for a complete understanding of the phenomena, but with an emphasis on the practical applications of the technique. The authors also give background information and relevant key references on each method, inviting the reader to explore deeper into the subject independently. Postgraduate researchers and those involved with radiation dosimetry will find this book particularly useful. The material is both relevant and accessible for both specialists and those new to the field; therefore, it is fundamental to any academic interested in modern advances of the subject. A Course in Luminescence Measurements and Analyses for Radiation Dosimetry Stephen W. S.

McKeever, 2022-05-16 A Course in Luminescence Measurements and Analyses for Radiation Dosimetry A complete approach to the three key techniques in luminescence dosimetry. In A Course in Luminescence Measurements and Analyses for Radiation Dosimetry, expert researcher Stephen McKeever delivers a holistic and comprehensive exploration of the three main luminescence techniques used in radiation dosimetry: thermoluminescence, optically stimulated luminescence, and radiophotoluminescence. The author demonstrates how the three techniques are related to one another and how they compare to each other. Throughout, the author's focus is on pedagogy, including state-of-the-art research only where it is relevant to demonstrate a key principle or where it reveals a critical insight into physical mechanisms. The primary purpose of the book is to teach beginning researchers about the three aforementioned techniques, their similarities and distinctions, and their applications. A Course in Luminescence Measurements and Analyses for Radiation Dosimetry offers access to a companion website that includes original data sets and problems to be solved by the reader. The book also includes a thorough introduction to the field of luminescence applications in radiation dosimetry, including a history of the subject. Comprehensive explorations of introductory models and kinetics, including the concepts of thermoluminescence, optically stimulated luminescence, and radiophotoluminescence. Practical discussions of luminescence curve shapes, including the determination of trapping parameters from experimental thermoluminescence and optically stimulated luminescence data. In-depth examinations of dose response functions: superlinearity, supralinearity, and sublinearity, as well as the causes of non-linearity. Detailed examples with well-known materials. A Course in Luminescence Measurements and Analyses for Radiation

Dosimetry is an invaluable guide for undergraduate and graduate students in the field of radiation dosimetry as well as faculty and professionals in the field

Advances In Physics And Applications Of Optically And Thermally Stimulated Luminescence Reuven Chen, Vasilis Pagonis, 2019-03-06 In this volume international leading experts in the study of thermally and optically stimulated luminescence give an up to date comprehensive coverage of the theoretical and experimental aspects of these subjects as well as their applications The theory of thermoluminescence TL and optically stimulated luminescence OSL are discussed in detail including mainly solid state models of localized and delocalized transitions These models cover the effects occurring during the excitation by irradiation and the read out by heating or by exposure to light The methods described consist of analytical mathematical considerations as well as numerical simulations The main application of these effects namely radiation dosimetry includes personal and environmental dosimetry as well as retrospective dosimetry and the dosimetry of cosmic radiation and space missions Also discussed in detail are archaeological and geological dating the use of luminescence dosimetry in medical physics as well as general applications in geosciences other model subjects such as time resolved luminescence and thermally assisted OSL and the sister subject of thermoluminescence in photosynthetic materials

An Introduction to Time-Resolved Optically Stimulated Luminescence Makaiko L Chithambo, 2018-12-18 Time resolved optical stimulation of luminescence has become established as an important method for measurement of optically stimulated luminescence Its enduring appeal is easy to see with the number of materials studied growing from the initial focus on natural minerals such as quartz and feldspar to synthetic dosimeters such as Al_2O_3 C BeO and YAlO_3 Mn^{2+} The aim of time resolved optical stimulation is to separate in time the stimulation and emission of luminescence The luminescence is stimulated from a sample using a brief light pulse The ensuing luminescence can be monitored either during stimulation in the presence of scattered stimulating light or after the light pulse The time resolved luminescence spectrum measured in this way can be resolved into components each with a distinct lifetime The lifetimes are linked to physical processes of luminescence and thus provide a means to study dynamics involving charge transfer between point defects in materials This book is devoted to time resolved optically stimulated luminescence and is suitable for researchers with an interest in the study of point defects using luminescence methods The book first sets the method within the context of luminescence field at large and then provides an overview of the instrumentation used There is much attention on models for time resolved optically stimulated luminescence two of which are analytical and the third of which is based on computational simulation of experimental results To bring relevance to the discussion the book draws on examples from studies on quartz and a Al_2O_3 C two materials widely investigated using this method The book shows how kinetic analysis for various thermal effects such as thermal quenching and thermal assistance can be investigated using time resolved luminescence Although use of light sums is an obvious choice for this contemporary work is discussed to show the versatility of using other alternative methods such the dynamic throughput

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to Applications II Christoph E. Nebel, 2008 **Radiation Dosimetry Phosphors** Sanjay J. Dhoble, Vibha Chopra, Vinit Nayar, George Kitis, Dirk Poelman, Hendrik C. Swart, 2022-05-26 Radiation Dosimetry Phosphors provides an overview of the synthesis properties and applications of materials used for radiation dosimetry and reviews the most appropriate phosphor materials for each radiation dosimetry technique The book describes the available phosphors used commercially for their applications in the medical field for dose measurements Although radiation dosimetry phosphors are commercially available continuous efforts have been made by the worldwide research community to develop new materials or improve already existing materials used in different areas with low or high levels of radiation Moreover researchers are still working on developing dosimetric phosphors for OSL ML LL and RPL dosimetry This book provides an overall view of the phosphors available low cost synthesis methods mechanisms involved emerging trends and new challenges for the development of emerging materials for radiation dosimetry It is suitable for those working in academia and R D laboratories in the discipline of materials science and engineering along with practitioners working in radiation and dosimetry Provides the fundamental concepts historical context and review of current phosphors available for radiation dosimetry Reviews low cost material methods to synthesize and characterize rare earth doped inorganic phosphors for different kinds of radiation dosimetry techniques Discusses key barriers and potential solutions for enabling commercial realization phosphors for radiation dosimetry applications **Scintillation Dosimetry** Sam Beddar, Luc Beaulieu, 2016-04-06 Scintillation Dosimetry delivers a comprehensive introduction to plastic scintillation dosimetry covering everything from basic radiation dosimetry concepts to plastic scintillating fiber optics Comprised of chapters authored by leading experts in the medical physics community the book Discusses a broad range of technical implementations from point source dosimetry scaling to 3D volumetric and 4D scintillation dosimetry Addresses a wide scope of clinical applications from machine quality assurance to small field and in vivo dosimetry Examines related optical techniques such as optically stimulated luminescence OSL or erenkov luminescence Thus Scintillation Dosimetry provides an authoritative reference for detailed state of the art information on plastic scintillation dosimetry and its use in the field of radiation dosimetry **Optically Stimulated Luminescence Dosimetry** L. Bøtter-Jensen, S. W. S. McKeever, A. G. Wintle, 2003 The various stimulation modes continuous wave pulsed or linear modulation are introduced and compared The properties of the most important synthetic OSL materials beginning with the dominant carbon doped Al₂O₃ and moving through discussions of other less well studied but nevertheless important or potentially important materials The OSL properties of the two most important natural OSL dosimetry material types namely quartz and feldspars are discussed in depth The applications chapters deal with the use of OSL in personal environmental medical and UV dosimetry geological dating and retrospective dosimetry accident dosimetry and dating Finally the developments in instrumentation that have occurred over the past decade or more are described P The book will find use in those laboratories within academia national institutes and the private sector where research and applications in radiation

dosimetry using luminescence are being conducted

Nuclear Cardiology: Practical Applications, Fourth Edition Gary V. Heller, Robert C. Hendel, 2022-07-08 Complete with review questions detailed answers and new and emerging techniques the go to guide for acing certification or recertification exams in nuclear cardiology Nuclear Cardiology Practical Applications Fourth Edition provides the information you need to know regarding indications for and interpretation of results of a nuclear test It s the perfect study guide for certification and recertification exams including the Certification Board Examination in Nuclear Cardiology CBNC This concise textbook focuses on the clinical application of imaging technology with the added bonus of review questions with detailed answers It covers all the latest advances in this rapidly changing field primarily in the areas of PET and amyloid imaging as well as other aspects of the nuclear imaging Features Revised chapters on radiopharmaceuticals and instrumentation NEW chapters on Cardiac PET focusing on myocardial perfusion and quantitative determination of myocardial blood flow NEW and revised chapters on FDG PET imaging covering myocardial viability sarcoid imaging and infection endocarditis imaging NEW information on interpreting and reporting of nuclear cardiology studies to include both PET and SPECT A focused chapter on appropriate use criteria to reflect the latest recommendations and CMS requirements NEW chapter on cardiac amyloid imaging including indications imaging procedures interpretation and strategies for use of the data Incorporation of alternative testing approaches within each of the current chapters

Thermally and Optically Stimulated Luminescence Reuven Chen, Vasilis Pagonis, 2011-04-08 Thermoluminescence TL and optically stimulated luminescence OSL are two of the most important techniques used in radiation dosimetry They have extensive practical applications in the monitoring of personnel radiation exposure in medical dosimetry environmental dosimetry spacecraft nuclear reactors food irradiation etc and in geological archaeological dating

Thermally and Optically Stimulated Luminescence A Simulation Approach describes these phenomena the relevant theoretical models and their prediction using both approximations and numerical simulation The authors concentrate on an alternative approach in which they simulate various experimental situations by numerically solving the relevant coupled differential equations for chosen sets of parameters Opening with a historical overview and background theory other chapters cover experimental measurements dose dependence dating procedures trapping parameters applications radiophotoluminescence and effects of ionization density Designed for practitioners researchers and graduate students in the field of radiation dosimetry

Thermally and Optically Stimulated Luminescence provides an essential synthesis of the major developments in modeling and numerical simulations of thermally and optically stimulated processes

Government reports annual index, 199? *The Rhine-Meuse System in a New Light* Jakob Wallinga, 2001

THERMALLY AND OPTICALLY STIMULATED LUMINESCENCE YIGAL SHALOM. CHRUSCINSKA HOROWITZ (ALICJA.), 2025

Thermally and Optically Stimulated Luminescence: Theory and Applications Yigal Shalom Horowitz, 2025-04-30

Concise Encyclopedia of Measurement & Instrumentation Ludwik Finkelstein, K. T. V. Grattan, 1994 Presents material concerning the

current state of measurement and instrumentation As well as providing a catalogue of transducer devices and related systems the text deals with the subject on a fundamental basis and progresses from theoretical principles through transducers to applications

Questions and Answers on Thermoluminescence (TL) and Optically Stimulated Luminescence (OSL) C. Furetta,2008 Currently thermoluminescence TL and optically stimulated luminescence OSL are the main techniques for studying the luminescence properties of several materials mainly insulators called phosphors Frequently however students and experts alike need to clarify some concepts related to the effects and defects present in the radiation interaction with solids generated by these phenomena In this book a series of questions and corresponding answers give a clearer explanation about the concepts theory and models related to TL and OSL including applications in important related areas Students researchers and teachers will find this book a good guide for understanding TL and OSL as methods for studying the nature of luminescent solids It provides a quick way for clearing doubts in the concepts and terminology concerning OSL and TL as it is intended to answer many questions which can be encountered in practical applications

Quaternary Nonglacial Geology Roger Barron Morrison,1991 **Bell Laboratories Talks and Papers** Bell Telephone Laboratories. Libraries and Information Systems Center,1981 **Introduction to Time-Resolved Optically Stimulated Luminescence** Chithambo Makaiko L,2018 *Conference on Lasers and Electro-optics Europe* ,2005

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