
PHYSICAL PROCESSES in INORGANIC SCINTILLATORS

Piotr A. Rodnyi

Physical Processes In Inorganic Scintillators Laser Optical Science Technology

Marvin J. Weber



Physical Processes In Inorganic Scintillators Laser Optical Science Technology:

Physical Processes in Inorganic Scintillators Piotr A. Rodnyi, 2020-12-17 During the last ten to fifteen years researchers have made considerable progress in the study of inorganic scintillators New scintillation materials have been investigated novel scintillation mechanisms have been discovered and additional scintillator applications have appeared Demand continues for new and improved scintillation materials for a variety of applications including nuclear and high energy physics astrophysics medical imaging geophysical exploration radiation detection and many other fields However until now there have been no books available that address in detail the complex scintillation processes associated with these new developments Now a world leader in the theory and applications of scintillation processes integrates the latest scientific advances of scintillation into a new work *Physical Processes in Inorganic Scintillators* Written by distinguished researcher Piotr Rodnyi this volume explores this challenging subject explains the complexities of scintillation from a modern point of view and illuminates the way to the development of better scintillation materials This unique work first defines the fundamental physical processes underlying scintillation and governing the primary scintillation characteristics of light output decay time emission spectrum and radiation hardness The book then discusses the complicated mechanisms of energy conversion and transformation in inorganic scintillators The section on the role of defects in energy transfer and scintillation efficiency will be of special interest Throughout the author does not offer complicated derivations of equations but instead presents useful equations with practical results

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Photochromic Glasses Alexander V. Dotsenko, Leonid B. Glebov, Victor A. Tsechomsky, 2020-10-07 Photochromic glasses are among the most widespread types of glasses due largely to their popular use in sunglasses These glasses are used not only in sunglasses but also in various opto electronic devices that have been developed and produced throughout the world Until now information about photochromic glasses has been widely dispersed in the literature much of which was published in Russian and therefore of limited accessibility to the Western world Physics and Chemistry of Photochromic Glasses brings together the combined knowledge and understanding of photochromic glasses from these publications Coverage includes the structure optical properties coloration and bleaching mechanisms technology and metrology of these interesting materials

Phosphor Handbook Shigeo Shionoya, William M. Yen, Hajime Yamamoto, 2018-10-03 A benchmark publication the first edition of the Phosphor Handbook set the standard for references in this field Completely revised and updated this second edition explores new and emerging fields such as nanophosphors nanomaterials UV phosphors quantum cutters plasma display phosphors sol gel and other wet phosphor preparation techniques preparation through combustion bioluminescence phosphors and devices and new laser materials such as OLED It also contains new chapters on the applications of phosphors in solid state lighting photoionization of luminescent centers in insulating phosphors and recent developments in halide based scintillators The handbook provides a comprehensive description of phosphors with an emphasis on practical phosphors and their uses in various kinds of technological applications It covers the fundamentals namely the basic principles of luminescence the principle phosphor materials and their optical properties The authors describe phosphors

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