Physical Processes in Inorganic Scintillators (Laser & Optical Science & Technology)

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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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