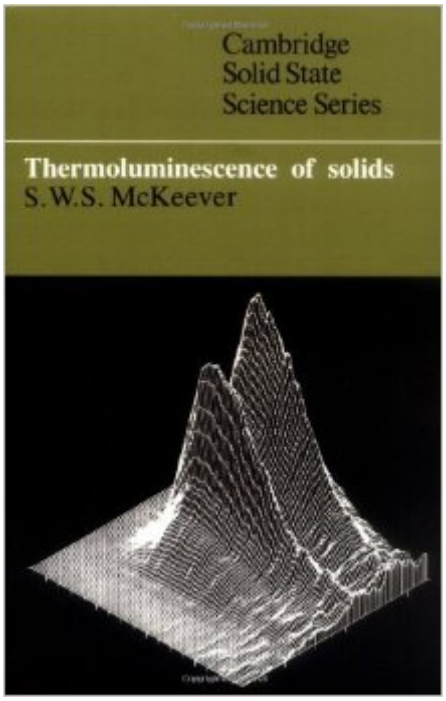
Thermoluminescence Of Solids (Cambridge Solid State Science Series)



Synopsis

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 and links these to applications in dating, dosimetry, and geology. 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.

Book Information

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Customer Reviews

As a Ph.D. student in the field of radiation protection and dosimetry I have read a lot of papers and books dealing with the theory of thermoluminescence. Based on this knowledge I consider Mc Keever’s work "Thermoluminescence of Solids" as "the" reference book in the respective field. The book provides an excellent overview of luminescence phenomena in general - leading the reader from the theoretical background to applications. The theoretical part is dealt with in high detail but also understandable for graduate students with a basic knowledge of radiation physics and the physics of solids. The application part covers an overview of the most common TLD-materials and their usage. The different techniques of thermoluminescence dating are reviewed and can also be used as a summary for archeologists.

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