



Numerical and Practical Exercises in Thermoluminescence

Vasilis Pagonis, George Kitis, Claudio Furetta

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Thermoluminescence (TL) is a well-established technique widely used in dosimetric and dating applications. Although several excellent reference books exist which document both the theoretical and experimental aspects of TL, there is a general lack of books that deal with the specific numerical and practical aspects of analyzing TL data. Many times the practical details of analyzing numerical TL glow curves and of applying theoretical models are difficult to find in the published literature. The purpose of this book is to provide a practical guide for both established researchers and for new graduate students entering the field of TL and is intended to be used in conjunction with and as a practical supplement of standard textbooks in the field.

Chapter 1 lays the mathematical groundwork for subsequent chapters by presenting the fundamental mathematical expressions most commonly used for analyzing experimental TL data.

Chapter 2 presents comprehensive examples of TL data analysis for glow curves following first-, second-, and general-order kinetics. Detailed analysis of numerical data is presented by using a variety of methods found in the TL literature, with particular emphasis in the practical aspects and pitfalls that researchers may encounter. Special emphasis is placed on the need to use several different methods to analyze the same TL data, as well as on the necessity to analyze glow curves obtained under different experimental conditions.

Unfortunately, the literature contains many published papers that claim a specific kinetic order for a TL peak in a dosimetric material, based only on a peak shape analysis. It is hoped that the detailed examples provided in Chapter 2 will encourage more comprehensive studies of TL properties of materials, based on the simultaneous use of several different methods of analysis.

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