



Principles and Applications of Thermal Analysis

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Principles and Applications of Thermal Analysis is written by manufacturers and experienced users of thermal techniques. It provides sound practical instruction on using the techniques and gives an up-to-date account of the principle industrial applications. By covering basic thermogravimetric analysis (TGA), differential scanning calorimetry (DSC) including Fast Scanning DSC, together with dynamic mechanical analysis (DMA /TMA) methods, then discussing industrial applications, the book serves as an ideal introduction to the technology for new users. With a strong focus on practical issues, the book serves as an important reference for experienced analysts.

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Editorial Review

From the Back Cover

Thermal Analysis techniques are used in a wide range of disciplines, from pharmacy and foods to polymer science, materials and glasses; in fact any field where changes in sample behaviour are observed under controlled heating or controlled cooling conditions. The wide range of measurements possible provide fundamental information on the material properties of the system under test, so thermal analysis has found increasing use both in basic characterisation of materials and in a wide range of applications in research, development and quality control in industry and academia.

Principles and Applications of Thermal Analysis is written by manufacturers and experienced users of thermal techniques. It provides the reader with sound practical instruction on how to use the techniques and gives an up to date account of the principle industrial applications. By covering basic thermogravimetric analysis (TGA), differential scanning calorimetry (DSC) including the new approach of Fast Scanning DSC, together with dynamic mechanical analysis (DMA /TMA) methods, then developing the discussion to encompass industrial applications, the book serves as an ideal introduction to the technology for new users. With a strong focus on practical issues and relating the measurements to the physical behaviour of the materials under test, the book will also serve as an important reference for experienced analysts.

About the Author

Paul Gabbott is Director, Thermal Instruments Ltd, based in Beaconsfield, UK and has over 25 years experience working with PerkinElmer Ltd in the field of thermal analysis.

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