



Principles of Thermal Analysis and Calorimetry

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Synopsis

Since the original text published in 2001, there have been significant advances in various analytical techniques and their applications. Each chapter of the new book will be rewritten by a contemporary expert in the field, who will explain the basic principles of the technique and highlight any recent technical advances in instrumentation or methods of analysis. Where appropriate and fully integrated into the chapters, applications will be used to highlight particular operating principles or methods of interpretation. All chapters will be reviewed to ensure consistency and accuracy of nomenclature and descriptions thus ensuring the quality of the book. Primarily aimed at undergraduate courses and the chemical industry where this technique is being used, it may also find a use with instrument manufacturers where they are introducing this method.

All information is subject to change without notice

Brief Contents

- Nomenclature
- Thermogravimetric Analysis
- Dynamic Vapour Sorption
- DTA and DSC
- Temperature-Modulated DSC
- Isothermal Microcalorimetry
- Isothermal Reaction Calorimetry and Adiabatic Calorimetry
- TMA and DMA
- Dielectric Spectroscopy
- Micro-TA

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