



Differential Scanning Calorimetry

By Günther Höhne, Wolfgang F. Hemminger, H.-J. Flammersheim



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In this fully updated and revised second edition the authors provide the newcomer and the experienced practitioner with a balanced and comprehensive insight into all important DSC methods, including a sound presentation of the theoretical basis of DSC and TMDSC measurements. Emphasis is laid on instrumentation, the underlying measurement principles, metrologically correct calibrations, factors influencing the measurement process, and on the exact interpretation of the results. The information given enables the research scientist, the analyst and experienced laboratory staff to apply DSC methods successfully and to measure respective properties correctly.



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Editorial Review

Review

From the reviews of the second edition:

"In this updated and fully revised second edition, the authors provide the newcomer and the experienced practitioner with a balanced and comprehensive insight into all important methods and aspects of Differential Scanning Calorimetry Emphasis is placed on modern evaluation techniques, instrumentation The information enables the research scientist, the analyst and the experienced laboratory staff to choose the most suitable equipment, to apply DSC methods successfully" (Chimie Nouvelle, Vol. 22 (85), 2004)

"Recently, with the invention of modulated temperature DSC (TMDSC) techniques, there have been many advances in the instrumentation, computation and interpretation. The authors present a thorough discussion of DSC for the specialist in this second edition. The strength of the book is the thorough treatment of the theory. ... This useful book provides a review of most aspects of DSC in the one volume. This book is a welcome addition to the library of DSC theory and practice available." (R. A. Shanks, Chemistry in Australia, January/February, 2004)

"Each of the first six of the seven chapters of the book is a fairly well-rounded presentation of the types of apparatus available, the methods of calibration and theories These chapters are worthy of attention by both present and potential users of DSC. ... The last chapter deals with specific applications This well-arranged book will help to further an understanding of the various facets of the technique and should promote its application to new problems." (S. L. Bark, Chromatographia, Vol. 60 (11-12), December, 2004)

From the Back Cover

In this updated and fully revised second edition, the authors provide the newcomer and the experienced practitioner with a balanced and comprehensive insight into all important methods and aspects of Differential Scanning Calorimetry (DSC), including a sound presentation of the theoretical basis of DSC thermal analysis and temperature-modulated DSC (TMDSC). Emphasis is placed on modern evaluation techniques, instrumentation, the underlying measurement principles, metrologically correct calibrations, factors influencing the measurement process, and on the exact interpretation of the results. The information enables the research scientist, the analyst and experienced laboratory staff to choose the most suitable equipment, to apply DSC methods successfully, to interpret the measurement curve, and thus to measure key properties precisely. In addition, the new edition includes improved instrumental techniques such as Tzero™ and StepScan™, new evaluation techniques, more applications, and the latest references.

Users Review

From reader reviews:

Jeanie Hynes:

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