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Over the last decade, high-sensitivity calorimetry has

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developed from a specialist method used mainly by dedicated experts to a major, commercially available tool in the arsenal directed at understanding molecular interactions and stability.

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Calorimeters have now become commonplace in bioscience laboratories. As a result, the number of those proficient in experimentation in this field has risen dramatically, as has the

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range of experiments to which these methods have been applied. Applications extend from studies in small molecule and solvent biophysics, through drug screening to whole cell assays. The technology has

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developed to include higher levels of sensitivity (and hence smaller sample size requirements) and a drive towards high-throughput technology, creating a very large user base in both academia and the

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pharmaceutical industry.

This book is a fully revised and updated edition of the successful Biocalorimetry: Applications of Calorimetry in the Biological Sciences, published in 1998. Since then, there have been many

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advances in the instrumentation as well as in its applications and methodology. There are general chapters highlighting the usage of the isothermal titration calorimeter and the

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draws these together to create the definitive biological calorimetric text book. This book both explains the background to the method and describes novel, high-impact applications. It features

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and failure to thrive is still common in children, but in the adult patients the symptoms resemble the irritable bowel syndrome. Mono-symptomatic forms with extra-intestinal manifestations are frequent.



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disciplines that are necessary to understand celiac disease and gluten-related pathologies, such as non-celiac gluten-sensitivity. This has a great impact in the general public and in the industry. However, the

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knowledge of non-celiac gluten-related pathologies remains scarce but presently in the process of being properly defined. This book also highlights the importance of recognizing non-celiac gluten-

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