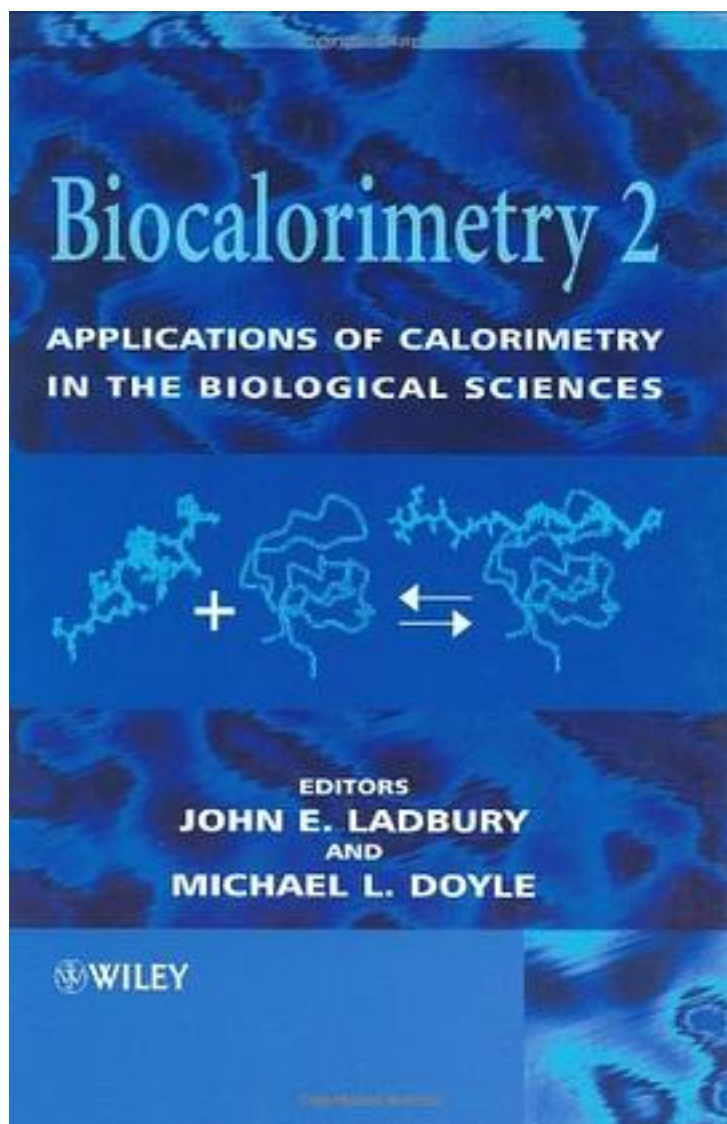


Biocalorimetry 2



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出版者:John Wiley & Sons Inc

出版时间:2004-9

装帧:HRD

isbn:9780470849682

Over the last decade, high--sensitivity calorimetry has 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. 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 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 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 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 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 differential scanning calorimeter, more advanced chapters on specific applications and tutorials that cover the idiosyncrasies of experimental methods and data analysis. The book 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 works of interest to the experienced calorimetrist and the enthusiastic dilettante. The book should be of interest to all working in the field of biocalorimetry, from graduate students to researchers in academia and in industry.

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