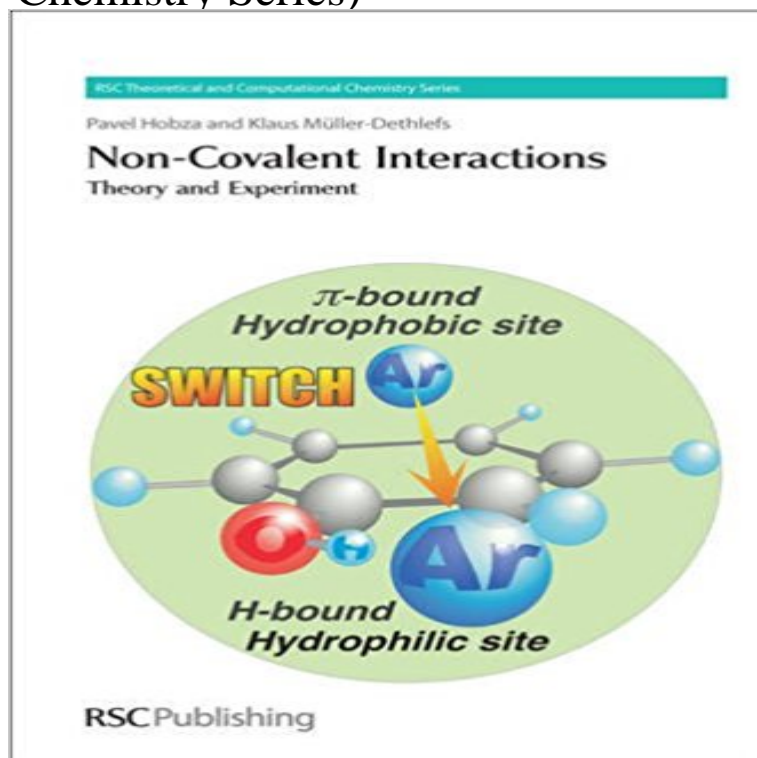


Microwave Assisted Proteomics (RSC Theoretical and Computational Chemistry Series)



This book is an introduction to microwave-assisted bio-analytical methods with an emphasis on sample preparation for proteomic analyses. Its objective is to provide a history and background for the methods described and the book summarizes the development and application of these protocols from both the literature in this field as well as from the experiences of a variety of laboratories conducting microwave-assisted protocols. It describes the evolution and integration of microwave energy into the biosciences with particular emphasis on the proteomic arena and an in depth evaluation of a variety of techniques within the field of proteomics which benefit from microwave-irradiation is given. In addition to describing the evolution of the microwave-assisted methodologies, the book also offers a concise protocol section with practical advice on how to implement these methods in any laboratory. Mechanisms of action as well as an overview of the types of instrumentation available are described to help the reader develop the best experimental design for their own budget and experimental aims. Microwave-assisted proteomics is a rapidly evolving field and this book captures the main areas that fall under this emerging arena.

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