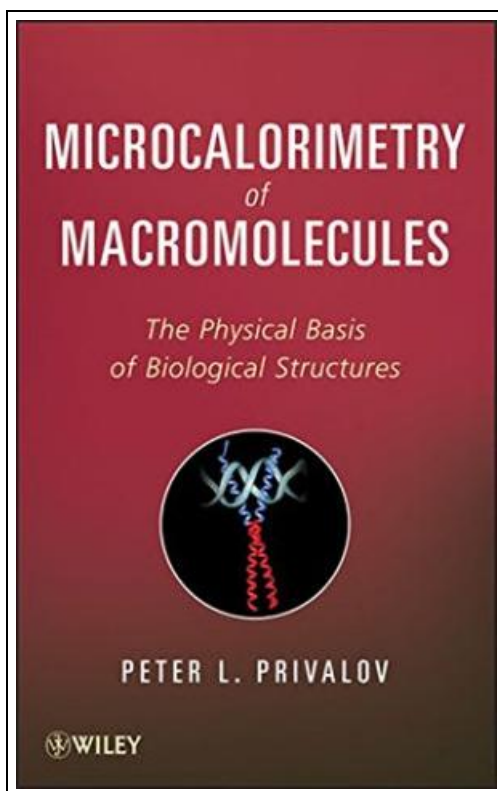


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MICROCALORIMETRY OF MACROMOLECULES: THE PHYSICAL BASIS OF BIOLOGICAL STRUCTURES (HARDBACK)



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John Wiley Sons Inc, United States, 2012. Hardback. Book Condition: New. 236 x 157 mm. Language: English . Brand New Book. Examining the physical basis of the structure of macromolecules proteins, nucleic acids, and their complexes using calorimetric techniques Many scientists working in biology are unfamiliar with the basics of thermodynamics and its role in determining molecular structures. Yet measuring the heat of structural change a molecule undergoes under various conditions yields information on the energies involved and, thus, on the physical bases of the considered structures. Microcalorimetry of Macromolecules offers protein scientists unique access to this important information. Divided into thirteen chapters, the book introduces readers to the basics of thermodynamics as it applies to calorimetry, the evolution of the calorimetric technique, as well as how calorimetric techniques are used in the thermodynamic studies of macromolecules, detailing instruments for measuring the heat effects of various processes. Also provided is general information on the structure of biological macromolecules, proteins, and nucleic acids, focusing on the key thermodynamic problems relating to their structure. The book covers: * The use of supersensitive calorimetric instruments, including micro and nano-calorimeters for measuring the heat of isothermal reactions (Isothermal Titration Nano-Calorimeter), the heat capacities over a broad temperature range (Scanning Nano-Calorimeter), and pressure effects (Pressure Perturbation Nano-Calorimeter) * Two of the simplest but key structural elements: the and polyproline helices and their complexes, the -helical coiled-coil, and the pyroline coiled-coils * Complicated macromolecular formations, including small globular proteins, multidomain proteins and their complexes, and nucleic acids * Numerous examples of measuring the ground state of protein energetics, as well as changes seen when proteins interact The book also reveals how intertwined structure and thermodynamics are in terms of a macromolecule s organization, mechanism of formation, the stabilization of its three-dimensional structure, and ultimately, its function....



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