

STUDIES IN MODERN THERMODYNAMICS 1

**BIOCHEMICAL
THERMO-
DYNAMICS**

M.N. JONES
(EDITOR)

ELSEVIER SCIENTIFIC PUBLISHING COMPANY

In recent years, there has been a rapid advance in the application of thermodynamic methods to the study of biochemical and biological systems. The momentum for this progress has come from the increasing interest in biochemistry as well as from technological advances in thermodynamic instrumentation, particularly in the area of microcalorimetry.

This book contains eleven chapters contributed by experts in the field. The topics considered include aqueous solution interactions of low molecular weight species, conformation changes in proteins and nucleic acids, solution thermodynamics of polysaccharides, the thermal behaviour of lipid systems and biological membranes, oxygen binding to haemoglobin, calorimetric studies on blood and bacterial cells, muscle contraction and the thermodynamics of metabolism.

The book will be of great value in providing up-to-date accounts of biochemical thermodynamic studies to biochemists, chemists and biophysicists with an interest in thermodynamics. Each chapter contains sufficient introductory material to make it readily comprehensible to the non-specialist in the field. This work will also be useful as a reference book for students of thermodynamics at senior undergraduate and postgraduate levels.

ISBN 0-444-41761-3

