

CONTENTS

CONTRIBUTORS LIST	ix
PREFACE TO THE SERIES	xi
THERMODYNAMIC PERTURBATION THEORY FOR ASSOCIATING MOLECULES	1
<i>Bennett D. Marshall and Walter G. Chapman</i>	
PATH INTEGRALS AND EFFECTIVE POTENTIALS IN THE STUDY OF MONATOMIC FLUIDS AT EQUILIBRIUM	49
<i>Luis M. Sesé</i>	
SPONTANEOUS SYMMETRY BREAKING IN MATTER INDUCED BY DEGENERACIES AND PSEUDODEGENERACIES	159
<i>Isaac B. Bersuker</i>	
MEAN FIELD ELECTROSTATICS BEYOND THE POINT CHARGE DESCRIPTION	209
<i>Derek Frydel</i>	
FIRST-PASSAGE PROCESSES IN CELLULAR BIOLOGY	261
<i>Srividya Iyer-Biswas and Anton Zilman</i>	
THEORETICAL MODELING OF VIBRATIONAL SPECTRA AND PROTON TUNNELING IN HYDROGEN-BONDED SYSTEMS	307
<i>Marek Janusz Wójcik</i>	
INDEX	343