

CONTENTS

Preface	v
<i>Dietrich Stauffer</i>	
Empirical Potential Energy Functions Used in the Simulations of Materials Properties	1
<i>Ş. Erkoç</i>	
Thermally Activated Reversal in Magnetic Nanostructures	105
<i>U. Nowak</i>	
A Tutorial on Advanced Dynamic Monte Carlo Methods for Systems with Discrete State Spaces	153
<i>M. A. Novotny</i>	
Beyond Navier–Stokes: Burnett Equations for Flow Simulations in the Continuum–Transition Regime	211
<i>R. K. Agarwal, K.-Y. Yun and R. Balakrishnan</i>	
Social Impact Models of Opinion Dynamics	253
<i>J. A. Holyst, K. Kacperski and F. Schweitzer</i>	
Teaching Computational Physics to Undergraduates	275
<i>J. Tobochnik and H. Gould</i>	