

Contents

Preface	<i>page</i> vii
1 Gibbs states and Markov random fields	1
2 Interacting particle systems	10
3 Coupled Markov chains	19
4 Gibbs states and Markov random fields on countable graphs	25
5 Gibbs states on countable sets	33
6 Kirkwood–Salsburg equations	46
7 Involutions of $\mathcal{P}(S)$	52
8 Attractive and supermodular potentials	60
9 Attractive pair potentials	73
10 Examples of phase transition	91
11 The extreme points of \mathcal{G}_1	106
Appendix The Lee–Yang circle theorem revisited	115
Bibliography	123
Index	127