

Table of contents

1-62 M.E. Vares

Large deviations and metastability

1-	Introduction
2-	I. Large deviations
2-	1.1. Introduction to large deviation results
4-	1.2. Classical large deviation results
14-	1.3. Large deviations in statistical mechanics
21-	1.4. An outline of Freidlin and Wentzell theory
31-	II. Metastability
32-	I2.1. Metastable behaviour of the Curie-Weiss model
40-	2.2. Metastability for the models of Freidlin and Wentzell
51-	III. Metastability II
59-	References

63-86 A. Bovier

Bernoulli convolutions, dynamical systems and automata

63-	I. Introduction and some history
67-	II. Bernoulli convolutions and invariant measures
72-	III. Local behavior of the measure: some results for $\beta > 1/2$
75-	IV. The case $\beta^2 + \beta = 1$
83-	V. Relations to Rauzy's theory and automata
86-	References

87- 111 P.A. Ferrari

Growth processes on a strip

87-	1. Introduction
89-	2. Definitions and preliminary results
91-	3. The Richardson model
98-	4. The branching exclusion process
101-	5. The biased voter model
102-	6. The biased voter model in a random environment
104-	7. The contact process
106-	8. The solid on solid model
108-	9. The exclusion process
109-	10. References

113-133 S. Martinez

Introduction to neural networks. Storage capacity and optimization

113-	1. Introduction
113-	2. The Hopfield model
119-	3. Description of the Potts-Hopfield model and storage capacity
125-	4. Scaling for fixed points
126-	5. Optimization and neural networks
133-	References

135-158 A. Bovier and P. Picco

Limit theorems for Bernoulli convolutions

135-	Introduction
138-	Section 2
145-	Section 3
157-	Section 4
158-	References