
Contents

0	Introduction	1
1	Gibbs Measures	3
	A. Gibbs Distribution	3
	B. Ruelle's Perron-Frobenius Theorem	8
	C. Construction of Gibbs Measures	13
	D. Variational Principle	16
	E. Further Properties	22
	References	26
2	General Thermodynamic Formalism	29
	A. Entropy	29
	B. Pressure	32
	C. Variational Principle	36
	D. Equilibrium States	42
	References	43
3	Axiom a Diffeomorphisms	45
	A. Definition	45
	B. Spectral Decomposition	47
	C. Markov Partitions	51
	D. Symbolic Dynamics	56
	References	58
4	Ergodic Theory of Axiom a Diffeomorphisms	61
	A. Equilibrium States for Basic Sets	61
	B. The Case $\phi = \phi^{(u)}$	64
	C. Attractors and Anosov Diffeomorphisms	69
	References	72

Index 75