

Contents

Introduction.....	1
1. Measure Theoretical Dynamical Systems.....	3
2. Measures on Compact Metric Spaces.....	8
3. Invariant Measures for Continuous Transformations	17
4. Time Averages.....	20
5. Ergodicity.....	23
6. Mixing and Transitivity.....	30
7. Shifts and Subshifts.....	36
8. Measures on the Shift Space	41
9. Partitions and Generators.....	49
10. Information and Entropy.....	56
11. Computation of Entropy.....	62
12. Entropy for Bernoulli- and Markov Shifts	68
13. Ergodic Decompositions.....	73
14. Topological Entropy.....	82
15. Topological Generators.....	92
16. Expansive Homeomorphisms.....	103
17. Subshifts of Finite Type.....	117
18. Variational Principle for Topological Entropy.....	131
19. Measures with Maximal Entropy - Intrinsically Ergodic Systems.....	147
20. Entropy-Expansive Homeomorphisms.....	160

21.	The Specification Property.....	193
22.	Specification and Expansiveness.....	210
23.	Basic Sets for Axiom A.....	224
24.	Automorphisms of the Torus	234
25.	More on Subshifts of Finite Type	241
26.	Preparations for Generator Theorems.....	254
27.	A Combinatorial Construction of Minimal Sets.....	275
28.	Finite Generators for Ergodic Transformations (Krieger's Theorem).....	281
29.	Strictly Ergodic Embedding (Theorem of Jewett and Krieger).....	300
30.	Finite Generators for Aperiodic Transformations...	309
31.	Embedding Theorems for Aperiodic Transformations..	316
Bibliography.....		333
Index.....		346
List of Symbols.....		358