

Contents

Abstract	page
Acknowledgements	i
Contents	iii
	v
Chapter 1: Introduction	1
Chapter 2: Topological Dynamics of a Finite family	7
2.1 Periodic Points and Transitivity	7
2.2 Stronger Notions of Mixing	9
2.3 Topological Entropy	11
Chapter 3: Metric Dynamics of a Finite Family	13
3.1 Equicontinuity and Minimality	13
3.2 Various forms of Sensitivities	14
3.3 Li-Yorke Sensitivity and Li-Yorke Chaos	15
Chapter 4: Dynamics of a Uniformly Convergent Sequence	17
4.1 Equicontinuity and Minimality	17
4.2 Topological Dynamics Generated by a Uniformly Convergent Sequence	18
4.3 Metric Dynamics of Uniformly Convergent Sequence	20
4.4 Proximal Pairs and Proximal Cells	23
Chapter 5: Generating Functions and Rearrangements of Non-autonomous Systems	27
5.1 Non-autonomous Systems and its Generating Functions	27
5.2 Dynamics of Truncated System	29
5.3 Alterations and Rearrangements	33
References	35

