

# CONTENTS

	PAGE
<b>Chapter I</b>	
INTRODUCTION	01
<b>Chapter II</b>	
SHADOWING PROPERTY ON $G$ -SPACES	22
1. $G$ -shadowing property : Definitions and examples	24
2. Properties of maps possessing $G$ -shadowing property	32
3. Characterization for the identity map to possess the $G$ -shadowing property	43
4. Characterization of a map to have the $G$ -shadowing property	48
<b>Chapter III</b>	
$G$ -SHADOWING ON INVERSE LIMIT SPACES	51
1. $G$ -shadowing of $\sigma$ from $G$ -shadowing of $f$	52
2. $G$ -shadowing of $f$ from $G$ -shadowing of $\sigma$	57
3. Maps on $[0, 1]$ possessing /not possessing $Z_2$ -shadowing / shadowing property	62
<b>Chapter IV</b>	
POSITIVELY $G$ -EXPANSIVE MAPS AND $G$ -SHADOWING PROPERTY	69
1. Positively $G$ -expansive maps: Definitions and examples	70
2. Properties of positively $G$ -expansive maps	74
3. Positively $G$ -expansive maps having $G$ -shadowing property	82
4. $G$ -non wandering points and $G$ -chain recurrent points: Definitions, examples and properties	87
<b>Chapter V</b>	
APPLICATIONS OF $G$ -SHADOWING PROPERTY	99
1. Decomposition Theorem	100
2. $G$ -periodic points	107
3. $G$ -specification	112
4. $G$ -minimality	115
<b>Chapter VI</b>	
SHADOWING PROPERTY ON TOPOLOGICAL SPACES	124
1. Definitions, examples and properties: $A$ -shadowing property	125
2. Positively $A$ -expansive maps	132
3. Topological $A$ -stability	137
<b>References</b>	141
<b>Appendix</b>	146