

CONTENTS

	Page
Introduction	1
Examples	5
Recurrence	10
Mean convergence	13
Pointwise convergence	18
Comments on the ergodic theorem	22
Ergodicity	25
Consequences of ergodicity.....	31
Mixing	36
Measure algebras	42
Discrete spectrum	46
Automorphisms of compact groups	51
Generalized proper values	57
Weak topology	61
Weak approximation	65
Uniform topology.....	69
Uniform approximation	74
Category	77
Invariant measures	81
Invariant measures: the solution	84
Invariant measures: the problem	87
Generalized ergodic theorems	91
Unsolved problems	96
References	101