CONTENTS

Chapter I. Discrete Convergence, Stability and Consistency

Foreword §1. Discrete convergence §2. Metric discrete limit spaces §3. Stability, equicontinuity and moduli of continuity §4. Discrete convergence of continuous mappings and error estimates §5. Continuous discrete convergence 1-6				
§2. Metric discrete limit spaces §3. Stability, equicontinuity and moduli of continuity 1-4 §4. Discrete convergence of continuous mappings and error estimates 1-4	Foreword			
§3. Stability, equicontinuity and moduli of continuity 1-4 §4. Discrete convergence of continuous mappings and error estimates 1-4	7			
continuity 1-6 §4. Discrete convergence of continuous mappings and error estimates 1-9	7			
and error estimates 1-9	7			
§5. Continuous discrete convergence 1-6	9			
	6			
Chapter II. Approximations of Differential and Integral Equations	ations			
§6. Difference approximations for initial value problems of ordinary differential equations 1	16			
6.1 Definitions 1 6.2 Consistency 7 6.3 Stability 10 6.4 Convergence 13				
§7. Difference methods for linear initial value problems	13			
 7.1 Definitions 7.2 Solubility and stability 7.3 Consistency and convergence 10 				
§8. Discretely uniform approximation of continuous functions	16			
8.1 Discretely uniform approximation 1 8.2 Convergence of sets 3 8.3 Discretely uniform limit spaces 6 8.4 Applications 12				

§9 .	Discrete approximations of measures and	
	integrals	1-12
	9.1 Measures and integrals	1
	9.2 Discrete convergence of sequences of measures	3
	9.3 Applications and examples	9
§10.	Discrete approximations of nonlinear	
	integral equations	1_17
	10.1 Consistency of Fredholm integral operators	1
	10.2 The restricted integral operators	7
	10.3 Differentiable integral operators	12
References	S	15