

CONTENTS

§0. Introduction and Notation	1
§1. An Abstract Lyapunov Theorem	8
§2. Lyapunov Theorems for Nonatomic von Neumann Algebras	19
§3. Lyapunov Theorems for C^* -algebras	23
§4. Lyapunov Theorems for Atomic von Neumann Algebras	30
§5. Simultaneous Approximations	41
§6. Lyapunov Theorems for Singular Maps	50
§7. Noncommutative Range	69
§8. Applications to the Paving Problem	83