## CONTENTS

Preface		vii
Contents of Volume IV		ix
Exercise Gro	upings	xi
Chapter 1.	Linear Spaces — Exercises and Solutions	1
Chapter 2.	Basics of Hilbert Space and Linear Operators — Exercises and Solutions	40
Chapter 3.	Banach Algebras — Exercises and Solutions	84
Chapter 4.	Elementary $C^*$ -Algebra Theory — Exercises and Solutions	139
Chapter 5.	Elementary von Neumann Algebra Theory — Exercises and Solutions	207
Bibliography		263
Index		268