

# Functional Analysis II : Operator Algebra

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## CHAPTER 1

# Operators on Hilbert spaces

**1. Spectral theory**

## CHAPTER 2

### $C^*$ -algebras

**1. The Gelfand-Naimark theorems**

**1.1. Commutative Banach algebras.**



## CHAPTER 3

# Von Neumann algebras