

# Topological Algebraic Structures

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# **Part I**

## **Chapter 1**

# **Topological groups**

## Chapter 2

# Topological vector spaces

### 2.1 Locally convex spaces

categorical aspects, bornology, tensor products, completeness,

### 2.2 Direct limit

distribution theory LF, LB spaces

### 2.3 Differentiable spaces

## **Chapter 3**

# **Topological algebras**

## **Part II**

## **Chapter 4**

# **Continuous fields**



## **Part III**

# **Fréchet and Banach spaces**

## **Part IV**

# **Fréchet and Banach algebras**