

Hypersemirings and Hyperrings

December 3, 2023

OUR

Contents

| | |
|-------------------------------|----------|
| A Other Chapters | 1 |
|-------------------------------|----------|

Appendices

A Other Chapters

Set Theory

1. Sets
2. Constructions With Sets
3. Pointed Sets
4. Tensor Products of Pointed Sets
5. Indexed and Fibred Sets
6. Relations
7. Spans
8. Posets

Category Theory

9. Categories
10. Constructions With Categories
11. Kan Extensions

Bicategories

12. Bicategories
13. Internal Adjunctions

Internal Category Theory

14. Internal Categories

Cyclic Stuff

15. The Cycle Category

Cubical Stuff

16. The Cube Category

Globular Stuff

- 17. [The Globe Category](#)

Cellular Stuff

- 18. [The Cell Category](#)

Monoids

- 19. [Monoids](#)
- 20. [Constructions With Monoids](#)

Monoids With Zero

- 21. [Monoids With Zero](#)
- 22. [Constructions With Monoids With Zero](#)

Groups

- 23. [Groups](#)
- 24. [Constructions With Groups](#)

Hyper Algebra

- 25. [Hypermonoids](#)
- 26. [Hypergroups](#)
- 27. [Hypersemirings and Hyperrings](#)
- 28. [Quantales](#)

Near-Rings

- 29. [Near-Semirings](#)

- 30. [Near-Rings](#)

Real Analysis

- 31. [Real Analysis in One Variable](#)
- 32. [Real Analysis in Several Variables](#)

Measure Theory

- 33. [Measurable Spaces](#)
- 34. [Measures and Integration](#)

Probability Theory

- 34. [Probability Theory](#)

Stochastic Analysis

- 35. [Stochastic Processes, Martingales, and Brownian Motion](#)
- 36. [Itô Calculus](#)
- 37. [Stochastic Differential Equations](#)

Differential Geometry

- 38. [Topological and Smooth Manifolds](#)

Schemes

- 39. [Schemes](#)