Constructions With Categories

December 3, 2023

Contents		
A Other Chapters		
Appendices		
A Other Chapters		
Set Theory	10. Constructions With Categories	
1. Sets	11. Kan Extensions	
2. Constructions With Sets	Bicategories	
3. Pointed Sets	12. Bicategories	
4. Tensor Products of Pointed Sets	13. Internal Adjunctions	
5. Indexed and Fibred Sets	Internal Category Theory	
6. Relations	14. Internal Categories	
	Cyclic Stuff	
7. Spans	15. The Cycle Category	
8. Posets	Cubical Stuff	
Category Theory	16. The Cube Category	
9. Categories	Globular Stuff	

17. The Globe Category	29. Near-Semirings
Cellular Stuff	30. Near-Rings
18. The Cell Category	Real Analysis
Monoids	31. Real Analysis in One Variable
19. Monoids	32. Real Analysis in Several Variables
20. Constructions With Monoids	Measure Theory
Monoids With Zero	33. Measurable Spaces
21. Monoids With Zero	34. Measures and Integration
22. Constructions With Monoids With	Probability Theory
Zero	34. Probability Theory
Groups	Stochastic Analysis
23. Groups	35. Stochastic Processes, Martingales,
24. Constructions With Groups	and Brownian Motion
Hyper Algebra	36. Itô Calculus
25. Hypermonoids	37. Stochastic Differential Equations
26. Hypergroups	Differential Geometry
27. Hypersemirings and Hyperrings	38. Topological and Smooth Manifolds
28. Quantales	Schemes
Near-Rings	39. Schemes