

Contents

Chapter 1. About this document	5
Chapter 2. Unfixed categories	6
1. Axiomatics for unfixed morphisms	6
2. Rectangular embedding-restriction	6
3. Image and domain	7
4. Equivalent morphisms	8
5. Binary product	11
6. Operations on the set of unfixed morphisms	12
7. Examples of categories with restricted identities	17
8. More results on restricted identities	21
Chapter 3. Applications of algebraic general topology	23
1. “Hybrid” objects	23
2. A way to construct directed topological spaces	23
3. Some inequalities	25
4. Continuity	26
5. A way to construct directed topological spaces	29
6. Integral curves	29
Chapter 4. Extending Galois connections between funcoids and reloids	33
Chapter 5. Boolean funcoids	35
1. One-element boolean lattice	35
2. Two-element boolean lattice	35
3. Finite boolean lattices	36
4. About infinite case	36
Chapter 6. Interior funcoids	38
Chapter 7. Filterization of pointfree funcoids	40
Chapter 8. Systems of sides	41
1. More on Galois connections	41
2. Definition	42
3. Concrete examples of sides	43
4. Product	45
5. Negative results	46
6. Dagger systems of sides	46
Chapter 9. Backward Funcoids	47
Chapter 10. Quasi-atoms	48
Chapter 11. Cauchy Filters on Reloids	49
1. Preface	49