

3	Functors	8
3.1	Informal introduction into functors	8
3.2	Basic definitions	10
3.2.1	Composition of functors	11
3.3	Functor as continuation	12
3.4	Lattices of functors	15
3.5	More on composition of functors	17
3.6	Domain and range of a functor	19
3.7	Categories of functors	20
3.8	Specifying functors by functions or relations on atomic filter objects	21
3.9	Direct product of filter objects	24
3.10	Atomic functors	27
3.11	Complete functors	29
3.12	Completion of functors	34
3.13	Monovalued and injective functors	36
3.14	T_0 -, T_1 - and T_2 -separable functors	38
3.15	Filter objects closed regarding a functor	38
4	Reloids	39
4.1	Composition of reloids	40
4.2	Direct product of filter objects	42
4.3	Restricting reloid to a filter object. Domain and image	43
4.4	Categories of reloids	45
4.5	Monovalued and injective reloids	46
4.6	Complete reloids and completion of reloids	47
5	Relationships between functors and reloids	51
5.1	Functor induced by a reloid	51
5.2	Reloids induced by functor	56
5.3	Galois connections of functors and reloids	58
6	Continuous morphisms	59
6.1	Traditional definitions of continuity	59
6.1.1	Pre-topology	59
6.1.2	Proximity spaces	60
6.1.3	Uniform spaces	60
6.2	Our three definitions of continuity	61
6.3	Continuity of a restricted morphism	62
7	Connectedness regarding functors and reloids	63
7.1	Some lemmas	64
7.2	Endomorphism series	64
7.3	Connectedness regarding binary relations	65
7.4	Connectedness regarding functors and reloids	67
7.5	Algebraic properties of S and S^*	69