2	\mathbf{Pre}	eliminaries	5
	2.1	Basic Notions	5
		2.1.1 Example Languages	7
	2.2	Automata Theory	8
		2.2.1 Finite Automaton	9
		2.2.2 Register Automata	10
		2.2.3 Universal Register Automata	12
		2.2.4 Alternating Register Automata	13
		2.2.5 Alternating Register Automata with guess and spread	14
	2.3	Regular Expressions	15
		(2.3.1) Regular Expressions with Backreferences	15
3	Reg	gister Set Automaton	16
	3.1	Properties	19
	3.2	Closure Properties	19
		3.2.1 Closure Properties of RsA	19
		3.2.2 Closure Properties of RsA_n	21
		3.2.3 Closure Properties of DRsA	21
		3.2.4 Closure properties of $DRsA_n$	22
	3.3	The Power of Nondeterminism	22