PDF

1

2.

$$L(A) = \{waa \mid w \in \{a,b\}^{\star}\}$$

2

F'=F, da  $orall a\in \epsilon H(q_0).\, a
ot\in F$ 

$$\delta'(q_0, \epsilon) = \{q_0, q_1, q_3\}$$
  
 $\delta'(q_0, a) = \{q_0\}$ 

3

 $R_{ij}^k$ 

$$R_{ij}^k = R_{ik}^{k-1}(R_{kk}^{k-1})^{\star}R_{kj}^{k-1} \cup R_{ij}^{k-1}$$

$$r_{11}^0=\epsilon$$

$$r_{12}^0=a$$

$$r_{13}^0=b$$

$$r_{21}^0=b$$

$$r_{22}^0=\epsilon$$

$$r_{23}^0=a$$

$$r_{31}^0=\emptyset$$

$$r_{32}^0=\emptyset$$

$$r_{33}^{0}=a+b+\epsilon$$

$$k=3,i=1,j=3$$

$$egin{array}{lll} r_{13}^3 &=& r_{13}^2 (r_{33}^2)^\star r_{33}^2 + r_{13}^2 \ &=& (a(ba)^\star (bb+a) + b)(a+b+\epsilon)^\star (a+b+\epsilon) + (a(ba)^\star (bb+a) + b) \ \cong && ((a(ba)^\star (bb+a)) + b)(a+b)^\star \end{array}$$

k = 2

$$egin{array}{lll} r_{13}^2 &=& r_{12}^1(r_{22}^1)^\star r_{23}^1 + r_{13}^1 &=& a(ba+\epsilon)^\star (bb+a) + b &\cong& a(ba)^\star (bb+a) + b \ r_{33}^2 &=& r_{32}^1(r_{22}^1)^\star r_{23}^1 + r_{33}^1 &=& \emptyset(ba+\epsilon)^\star (bb+a) + (a+b+\epsilon) &\cong& a+b+\epsilon \end{array}$$

## Zustandseliminierung

