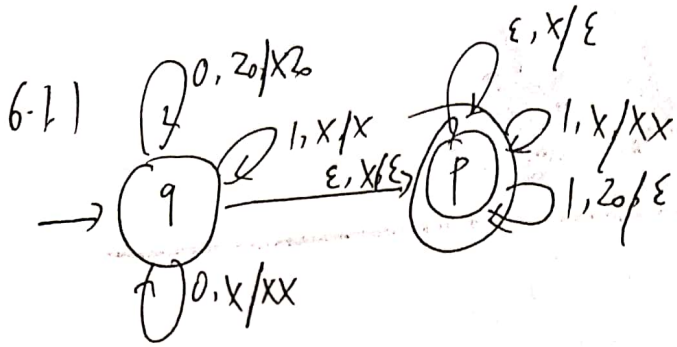


Artmada
Week 9
4/24/2019

#R73
Uk
201703564



$(q, a0011, z_0)$

↓ 式1
 $(q, 011, xz_0) \xrightarrow{\text{式4}} (q, 011, z_0)$

↓ 式2
 $(q, 11, xxz_0) \xrightarrow{\text{式4}} (q, 11, xz_0) \xrightarrow{\text{式5}} (p, 11, z_0)$

↓ 式3
 $(q, 1, xxxz_0) \xrightarrow{\text{式4}} (p, 1, xz_0) \xrightarrow{\text{式6}} (p, 1, xz_0) \xrightarrow{\text{式5}} (p, 1, z_0)$

↓ 式3
 $(q, \epsilon, xxxz_0) \xrightarrow{\text{式4}} (p, \epsilon, xz_0) \xrightarrow{\text{式5}} (p, \epsilon, z_0)$

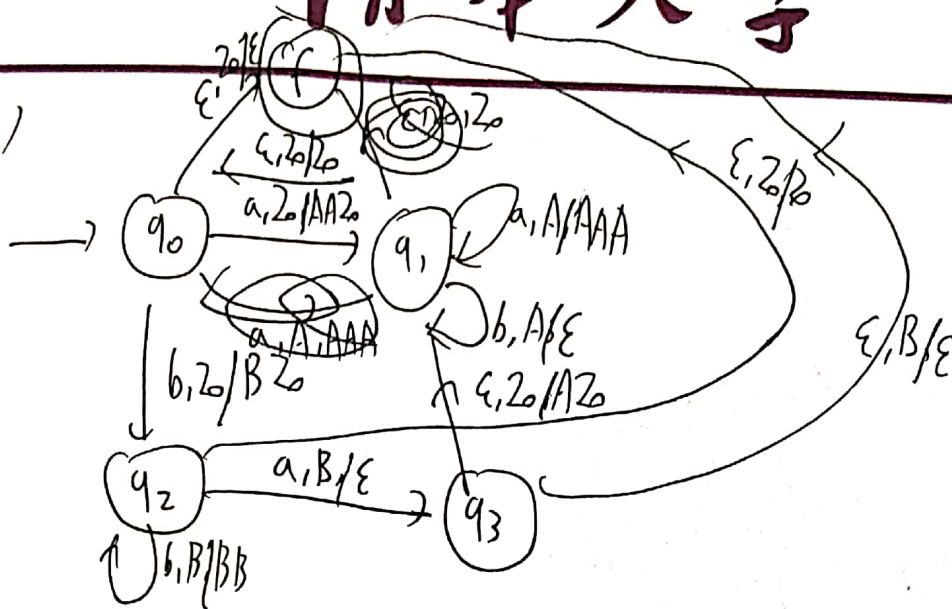
↓ 式6
 $(p, \epsilon, xxxz_0) \xrightarrow{\text{式5}} (p, \epsilon, xz_0)$

↓ 式7
 $(p, \epsilon, xz_0) \xrightarrow{\text{式6}} (p, \epsilon, xxxz_0)$

↓ 式7
 $(p, \epsilon, xz_0) \xrightarrow{\text{式7}} (p, \epsilon, \epsilon)$



6.2.5 (b)

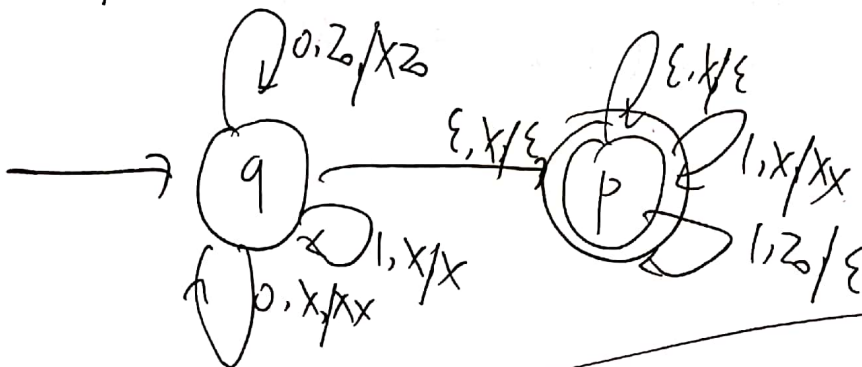


$$(q_0, abb, z_0) \vdash (q_1, bb, AAz_0) \vdash (q_1, b, Az_0)$$

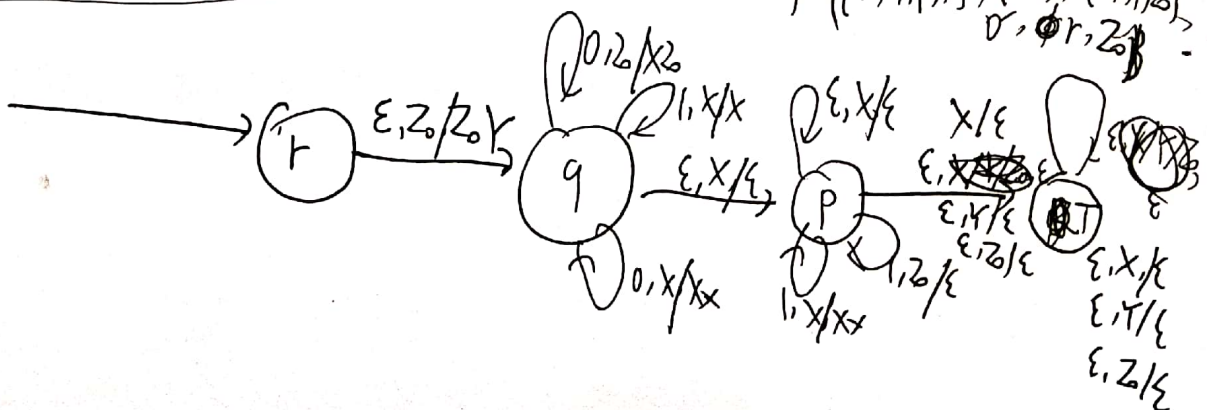
$$\vdash (q_1, \epsilon, z_0) \vdash (f, \epsilon, \epsilon)$$

6.2.6:

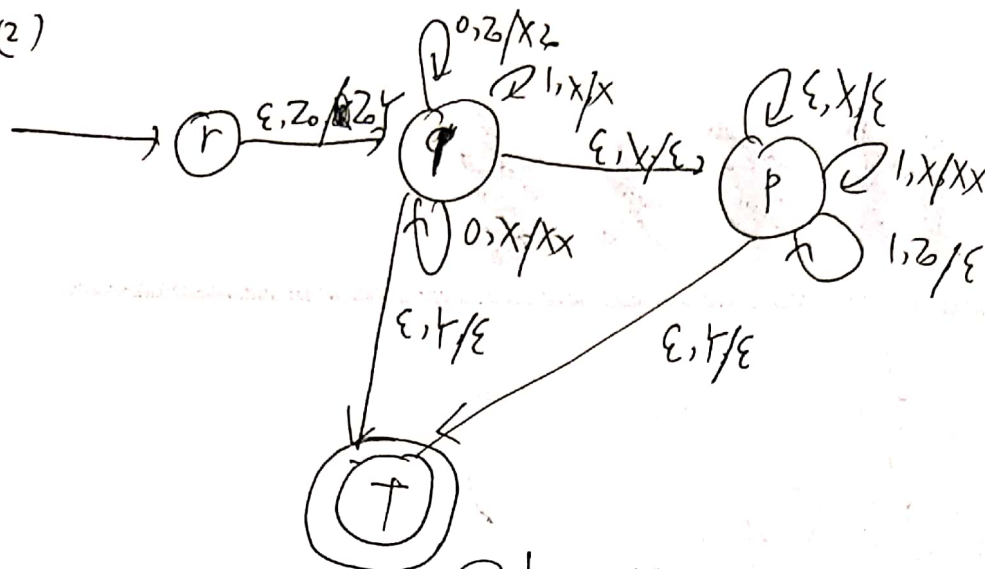
P:



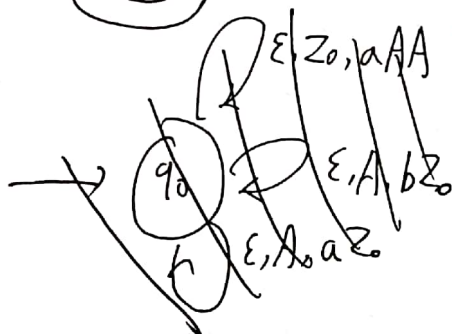
(1) P_1 :



(2)



6.3.2



$$P = (\cancel{q_0}, \{q_0\}, \{a, b\}, \{s, A, a, b\}, \sigma, \cancel{q_0}, (s))$$



$$\textcircled{1} \sigma(q_0, \epsilon, s) = \{(q_0, aAA)\}$$

$$\textcircled{2} \sigma(q_0, \epsilon, A) = \{(q_0, as), (q_0, bS), (q_0, a)\}$$

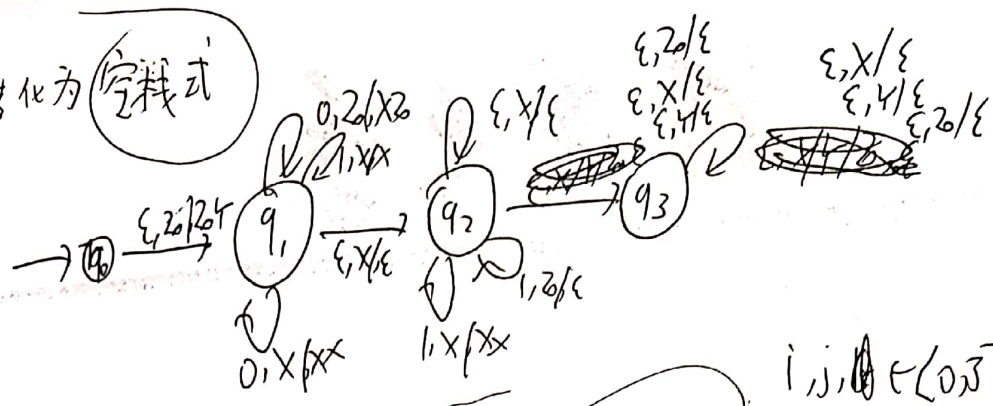
$$\textcircled{3} \sigma(q_0, a, a) = \{(q_0, \epsilon)\}$$

$$\textcircled{4} \sigma(q_0, b, b) = \{(q_0, \epsilon)\}$$



int 45

6.3.4 先转化为正则式



$i, j \in \{0, 1, 2\}, i, j, l \in \mathbb{Z}$

$$S \rightarrow [q_0, Z_0, q_i]$$

$$[q_1, X, q_2] \rightarrow \epsilon$$

$$[q_2, Z_0, q_2] \rightarrow 1$$

$$[q_2, X, q_2] \rightarrow \epsilon$$

$$[q_2, X, q_3] \rightarrow \epsilon$$

$$[q_2, X, q_3] \rightarrow \epsilon$$

$$[q_2, Z_0, q_3] \rightarrow \epsilon$$

$$[q_3, X, q_3] \rightarrow \epsilon$$

$$[q_3, X, q_3] \rightarrow \epsilon$$

$$[q_3, Z_0, q_3] \rightarrow \epsilon$$



$$[q_0, Z_0, q_i] \rightarrow [q_0, Z_0, q_i] [q_i, X, q_1]$$

$$[q_1, X, q_i] \rightarrow 1 [q_1, X, q_i]$$

$$[q_1, Z_0, q_i] \rightarrow 0 [q_1, X, q_j] [q_j, Z_0, q_i]$$

$$[q_1, X, q_i] \rightarrow 0 [q_1, X, q_j] [q_j, X, q_i]$$

$$[q_2, X, q_i] \rightarrow 1 [q_2, X, q_j] [q_j, X, q_i]$$

Q



6.3.5:

