

151220129 计科 吴政亿

厚书 3.7.1

(2)一个状态

$$\epsilon - closure(0) = \{0\} = A$$

$$Dtran[A, a] = \epsilon - closure(0, 1) = \{0, 1\} = B$$

$$Dtran[A, b] = \epsilon - closure(0) = A$$

$$Dtran[B, a] = \epsilon - closure(0, 1, 2) = \{0, 1, 2\} = C$$

$$Dtran[B, b] = \epsilon - closure(0, 1) = B$$

$$Dtran[C, a] = \epsilon - closure(0, 1, 2) = C$$

$$Dtran[C, b] = \epsilon - closure(0, 1, 2, 3) = D$$

$$Dtran[D, a] = \epsilon - closure(0, 1, 2) = C$$

$$Dtran[D, b] = \epsilon - closure(0, 1, 2, 4) = D$$

NFA	DFA	a	b
{0}	A	B	A
{0,1}	B	C	B
{0,1,2}	C	C	D
{0,1,2,3}	D	C	D

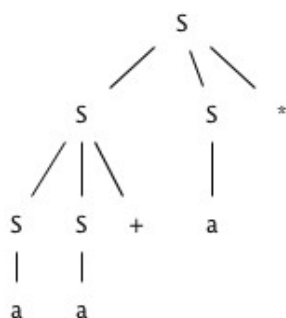
4.2.1

1.

$$S \rightarrow SS^* \rightarrow SS + S^* \rightarrow aS + S^* \rightarrow aa + S^* \rightarrow aa + a^*$$

2. $S \rightarrow SS^* \rightarrow Sa^* \rightarrow SS + a^* \rightarrow Sa + a^* \rightarrow aa + a^*$

3. 如下图



4. 略

5. 所有加法和乘法混合的a的后缀表达式集合