Lista de exercícios nova - Erickson G. Müller

0.1 4 - autômatos finitos

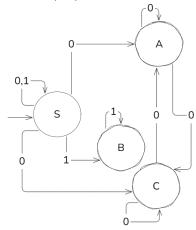
a

S ::= 0S|1S|0A|0C|1B

A ::= 0A|0C|0

B ::= 1B|1

C ::= 0C |0A|0



AFND

	0	1 1
\rightarrow S	S,A,C	S,B
A	$_{\mathrm{A,C,F}}$	-
В	-	В, Б
C	A, C, F	- 1
*F	-	-

\mathbf{AFD}

	0	1
\rightarrow S	[S, A, C]	[S, B]
[S, A, C]	*[S, A, C, F]	[S, B]
*[S, A, C, F]	*[S, A, C, F]	[S,B]
[S,B]	[S, A, C]	*[S,B,F]
*[S,B,F]	[S, A, C]	*[S,B,F]

b S ::= aA|aC|bB|bC A ::= aF|a B ::= bF|b C ::= aA|aC|bB|bC F ::= aF|bF|a|b

AFND

	a	b
$\rightarrow S$	A, C	B, C
A	F, K	-
B	-	F, K
C	A, C	B, C
F	F, K	F, K
*K	-	-

AFD

	a	b
$\rightarrow S$	[A, C]	[B,C]
[A, C] [B, C]	*[F,K] $[A,C]$	$[B,C] \\ *[B,C,F,K]$
*[F,K]	*[F,K]	*[F,K]
[B, C, F, K] $[A, C, F, K]$	*[A, C, F, K] $*[A, C, F, K]$	*[B,C,F,K] $*[B,C,F,K]$

S ::= aA|bB A ::= aS|aC|a B ::= bS|bD|b C ::= aB

D ::= bA

AFND

	a	b
$\rightarrow S$	A	B
A	S, C, F	-
B	-	S, D, F
C	B	-
D	-	A
*F	-	-

AFD

	a	b
$\rightarrow S$	A	B
A	*[S,C,F]	-
*[S,C,F]	[A, B]	B
B	-	*[S, D, F]
[A,B]	*[S,C,F]	*[S, D, F]
*[S, D, F]	A	[A, B]

$$\begin{array}{l} \mathbf{d} \\ S ::= 0 < B > |1 < A > |1|\varepsilon \\ A ::= 0 < B > |\varepsilon \\ B ::= 0 < C > |0|1 < D > \\ C ::= 0 < B > |1 < A > |1 \\ D ::= 1 < C > |1 \end{array}$$

 \mathbf{e}

$$\begin{split} S &::= aA|bB|a\\ A &::= aS|bC\\ B &::= aC|bS\\ C &::= aB|bA|b \end{split}$$

AFND

	a	b
$\rightarrow S$	A, F	B
A	S	C
B	C	S
C	B	A, F
*F	_	_

AFD

	a	b
$\rightarrow S$	*[A,F]	B
*[A,F]	S	C
$\mid B \mid$	C	S
C	B	*[A,F]
*F	-	-

 \mathbf{f}

 $S ::= aA|bB|b|cS|c|\varepsilon$ A ::= aS|a|bC|cA B ::= aA|cB|cS|c C ::= aS|a|cA|cC

\mathbf{AFND}

	a	b	c
$\rightarrow *S$	A	B, F	S, F
A	S, F	C	A
B	A	-	B, S, F
C	S, F	-	A, C
F	_	-	_

\mathbf{AFD}

	a	b	c
$\rightarrow *S$	A	[B,F]	[S, F]
A	[S, F]	C	A
[B,F]	A	_	[B,S,F]
[S, F]	A	[B,F]	[S, F]
C	[S,F]	-	[A, C]
[B, S, F]	A	[B,F]	[B, S, F]
[A, C]	[S, F]	C	[A, C]