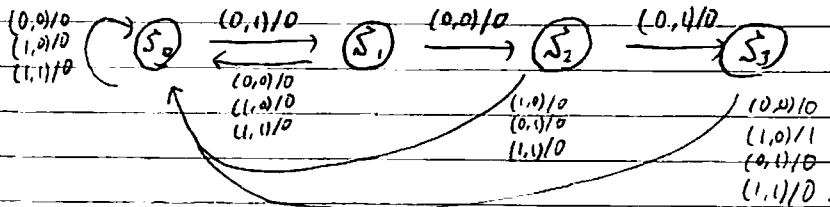


[2]

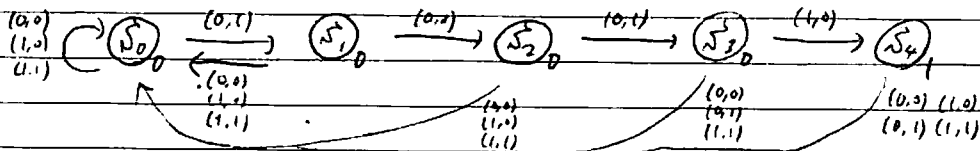
(1-1) (Aの符号, Bの符号, 演算種別, Rの符号) = (正, 正, 加算, 負)
 (負, 負, 加算, 正)
 (正, 負, 減算, 負)
 (負, 正, 減算, 正)

$$\begin{aligned}
 (1-2) & (\overline{a_{n-1}} \wedge \overline{b_{n-1}} \wedge \overline{sel} \wedge \overline{r_{n-1}}) \\
 & V (\overline{a_{n-1}} \wedge \overline{b_{n-1}} \wedge \overline{sel} \wedge r_{n-1}) \\
 & V (\overline{a_{n-1}} \wedge b_{n-1} \wedge \overline{sel} \wedge \overline{r_{n-1}}) \\
 & V (\overline{a_{n-1}} \wedge b_{n-1} \wedge \overline{sel} \wedge r_{n-1})
 \end{aligned}$$

(2-1) Mealy 型



Moore 型



次の状態

出力Z

(2-2)	(0,0)	(0,1)	(1,1)	(1,0)	(0,0)	(0,1)	(1,1)	(1,0)
S_0	S_0	S_1	S_0	S_0	0	0	0	0
S_1	S_2	S_0	S_0	S_0	0	0	0	0
S_2	S_0	S_3	S_0	S_0	0	0	0	0
S_3	S_0	S_0	S_0	S_0	0	0	0	1

NO.

DATE

(2-3)

 Q_1, Q_0 $* \lambda^1(X_1, X_2)$

Q_1, Q_0	Q_1, Q_0	(0,0)	(0,1)	(1,1)	(1,0)
$S_0 (0, 0)$	0 0	0 0	0 1	0 0	0 0
$S_1 (0, 1)$	0 1	1 1	0 0	0 0	0 0
$S_2 (1, 1)$	1 1	0 0	1 0	0 0	0 0
$S_3 (1, 0)$	1 0	0 0	0 0	0 0	0 0

 Q_1 Q_0

Q_1, Q_0	(0,0)	(0,1)	(1,1)	(1,0)	Q_1, Q_0	(0,0)	(0,1)	(1,1)	(1,0)
0 0	0	0	0	0	0 0	0	1	0	0
0 1	1	0	0	0	0 1	1	0	0	0
1 1	0	1	0	0	1 1	0	0	0	0
1 0	0	0	0	0	1 0	0	0	0	0

$$D_1 = \bar{Q}_1 \bar{Q}_0 \bar{X}_1 \bar{X}_2$$

$$\vee Q_1 \bar{Q}_0 \bar{X}_1 \bar{X}_2$$

$$D_2 = \bar{Q}_1 \bar{Q}_0 \bar{X}_1 X_2$$

$$\vee \bar{Q}_1 \bar{Q}_0 \bar{X}_1 X_2$$

(2-4)

 Z

Q_1, Q_0	(0,0)	(0,1)	(1,1)	(1,0)
0 0	0	0	0	0
0 1	0	0	0	0
1 1	0	0	0	0
1 0	0	0	0	1

$$Z = Q_1 \cdot \bar{Q}_0 \cdot X_1 \bar{X}_2$$