

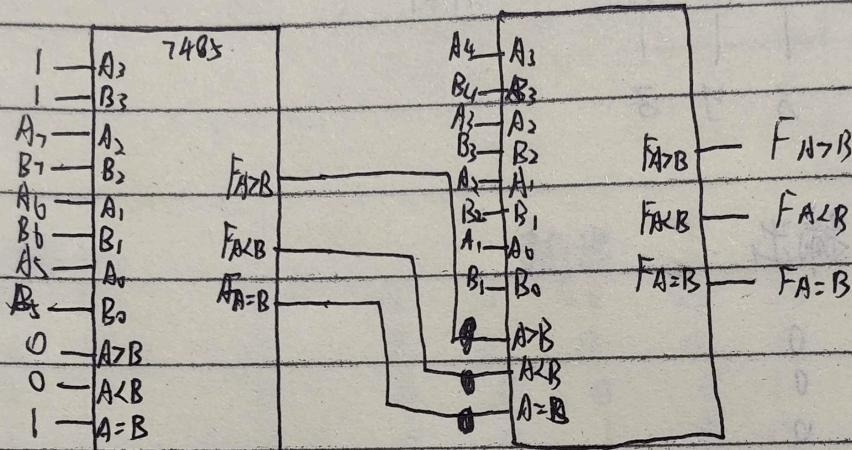
余3码高位

余3码低位

6.1

	F <sub>8</sub>	F <sub>7</sub>	F <sub>6</sub>	F <sub>5</sub>				
FC <sub>4</sub>	74283				C <sub>0</sub> = 0"		F <sub>8</sub>	F <sub>7</sub>
A <sub>4</sub>	A <sub>3</sub>	A <sub>2</sub>	A <sub>1</sub>	B <sub>4</sub>	B <sub>3</sub>	B <sub>2</sub>	B <sub>1</sub>	
8421BCD高位	0	0	1	(B)				8421BCD低位

6.2



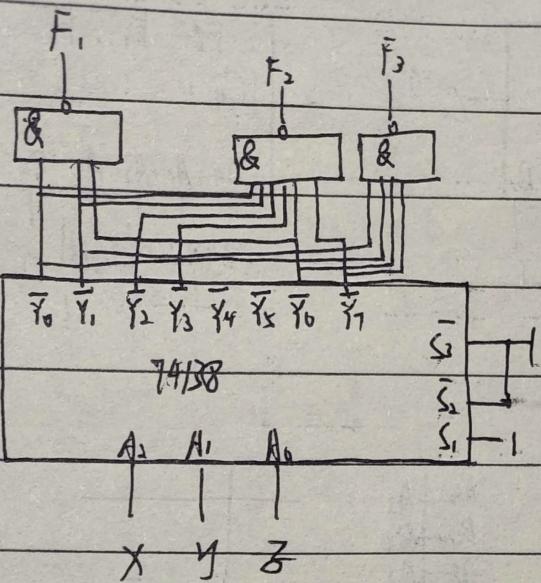
6.3 列出真值表

输入      输出

x	y	z	F <sub>1</sub>	F <sub>2</sub>	F <sub>3</sub>
0	0	0	1	1	1
0	0	1	1	1	1
0	1	0	0	1	0
0	1	1	0	1	0
1	0	0	0	0	0
1	0	1	0	0	0
1	1	0	1	1	1
1	1	1	0	1	1

$$F_1 = \sum m(0, 1, 6)$$

$$F_2 = \sum m(0, 1, 2, 3, 6, 7) \quad F_3 = \sum m(0, 1, 6, 7)$$

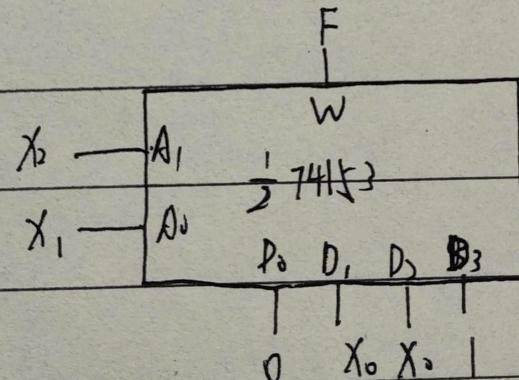


6.4(2)      输入      输出

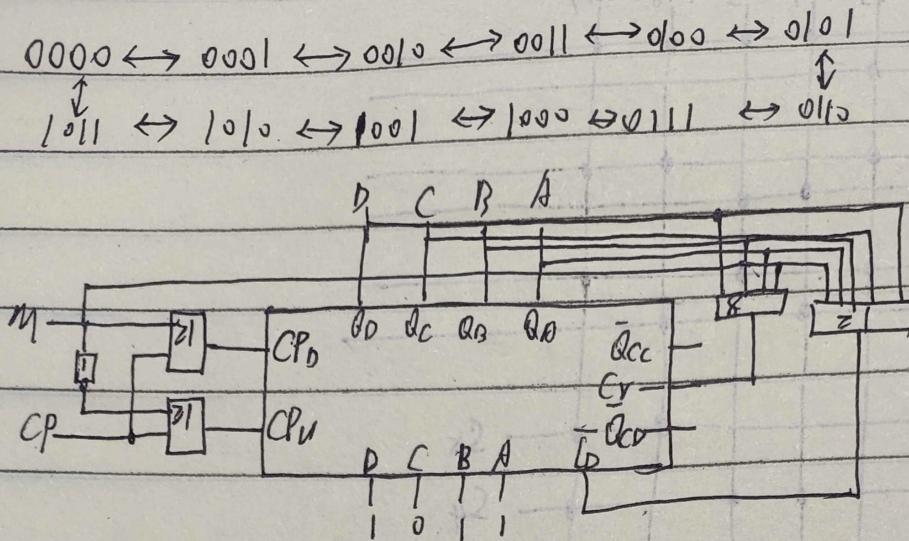
$X_2$	$X_1$	$X_0$	输出
0	0	0	0
0	0	1	0
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

$$F = \sum m(3, 5, 6, 7)$$

$$\begin{aligned} F &= \bar{x}_2 x_1 x_0 + x_2 \bar{x}_1 x_0 + x_2 x_1 \bar{x}_0 + x_2 x_1 x_0 \\ &= \bar{x}_2 \bar{x}_1 \cdot 0 + \bar{x}_2 x_1 \cdot x_0 + x_2 \bar{x}_1 \cdot x_0 + x_2 x_1 \cdot 1 \end{aligned}$$



6.5 假设初始状态为 0000



$X_2$	$X_1$	$X_0$	$S_5$	$S_4$	$S_3$	$S_2$	$S_1$	$S_0$
0	0	0	0	0	0	0	0	0
0	0	1	0	0	0	0	0	1
0	1	0	0	0	0	1	0	0
0	1	1	0	0	1	0	0	1
1	0	0	0	1	0	0	0	0
1	0	1	0	1	0	1	0	1
1	1	0	1	0	0	1	0	0
1	1	1	1	1	0	0	0	1

$$S = x_2 x_1 \bar{x}_0 + x_2 x_0 x_0 = \Sigma_m(6,7)$$

$$S_4 = x_2 \bar{x}_1 \bar{x}_0 + x_2 \bar{x}_1 x_0 + x_2 x_1 x_0 = \Sigma m(4, 5, 7)$$

$$S_3 = \bar{x}_2 x_1 x_0 + x_2 \bar{x}_1 x_0 = \Sigma_m(3, 5)$$

$$S_2 = \bar{x}_2 x_1 \bar{x}_0 + x_2 \bar{x}_1 \bar{x}_0 = \Sigma_m(2, 6)$$

$$\zeta_1 = 0$$

$$S_0 = \bar{x}_2 \bar{x}_1 x_0 + \bar{x}_2 x_1 x_0 + x_2 \bar{x}_1 x_0 + x_2 x_1 x_0 = \sum_m (1, 3, 5, 7)$$

