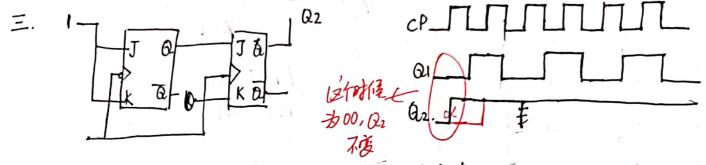
(1) 
$$F = \overline{ACD} + \overline{ABD} + \overline{ABCD} + \overline{ABD} + \overline{ABD} + \overline{ABD} + \overline{ABCD} + \overline$$

- 不一定唯一,因为长诺圈的圈对不唯一
- 可以简化芸逻辑门的答案个数



- 四. (1)异步置转电路,因为这个3个触发器不共用同一个时针消
  - (2) Morro型, 因为这个电路的输出仅与状态有关

CI=QX DI=QI  $C2 = \times \Omega_1 + \times \Omega_2 \Omega_3 \quad (\Omega_1 + \overline{\Omega_2}\Omega_3)$  $D2 = \overline{Q_2}$ C3=(xQ1Q2 Z = Q1 Q2 Q3

 $(\overline{C} + \overline{B})$ 

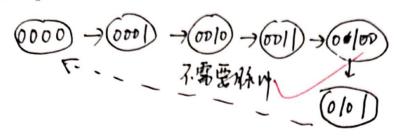
础位的 (5) 可启的More型模 玉.

(30)

- a, 低电平 b高电平c高电平d高电平 (1)
- (2)

AB=11

- AB=01 模5 计数器
- AB=OL (3)

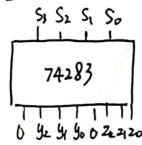


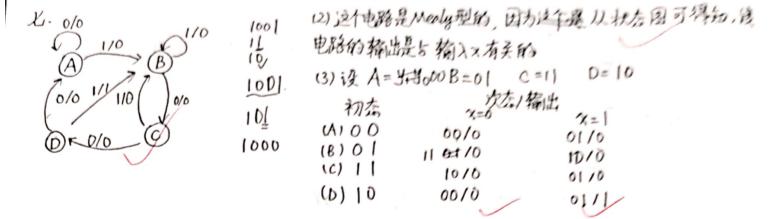
- (4) Z= f(a) QCQBQA) = QCQBQA + QCQBQA
- (可以多) AB=0/时 2输出序引为 10001 (可以多)
- $W = \gamma \chi x(1+2)$ 
  - (1)重输入个数,8个 输出个数.6个

Y2 Y, Y0 (2) Z2 Z1 Z0 Ws W2 W1 W0 UstoUsza wixo WoxXo Waxy Waxx Waxy Wax

FI= WO&XO XXW2 XXW XXW

(阳分神子(明的). (3)电路图

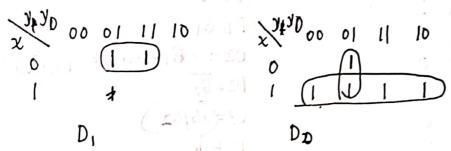




(4)下面引出次态真值表

输入 数本 D	Do 次态	输出	由次态方程,
0 00 0	00	0	<b>3</b> )= D
0 01 0	0 0 00	D	
0 11 1	0 110	0	$D_i = \sum m(li3)$
1 00 0	01	0	Dz = 2m (1, 4.5.6.7)
1 0 1	01	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	0	9	
F			

肝诺图



(5) 无自启动问题, 因为本电路无知不可用状态

-. (1) 
$$F=\overline{ACD} + ABD + \overline{ABCD} + \overline{ABD} + \overline{ABD} + \overline{ABD}$$

$$= \overline{ACD} + \overline{ABD} + \overline{ABCD} + \overline{ABD} + \overline{ABD}$$

$$= \overline{ABCD} + \overline{ABD} + \overline{ABCD} + \overline{AB} + \overline{AD}$$

$$= \overline{ABCD} + \overline{ABD} + \overline{ABCD} + \overline{ABCD} + \overline{AD} + \overline{AB}$$

$$= \overline{ABCD} + \overline{ABD}$$
(2)  $\overline{ADE}$ 
(3)

则有 Z = x y; y。 D1= <del>えy, y。+ x y, y。</del> x <del>x</del> D:o = y y y o + x