



班级: 计01

姓名: 谷逸朗

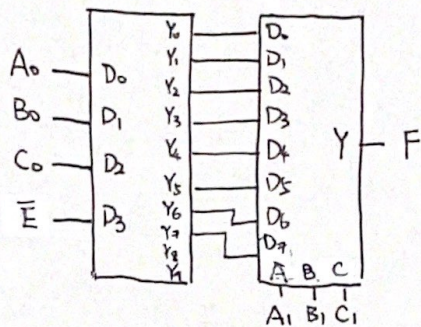
编号: 2020010869

科目: 数电

第 1 页

4.12 见后页.

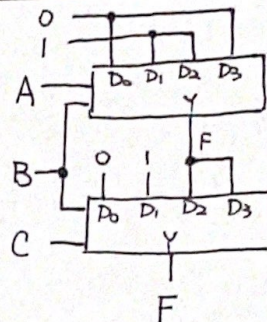
4.19



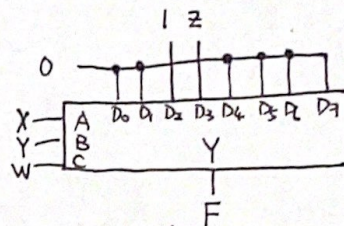
$E$	输入	$F$
1	X	1
0	$C_0 B_0 A_0 = C_1 B_1 A_1$	0
0	$C_0 B_0 A_0 \neq C_1 B_1 A_1$	1

$$t_{pd} = t_{pd \text{ BCN}} + t_{pd \text{ 输入}}$$

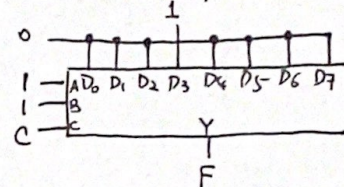
4.20 4选1:



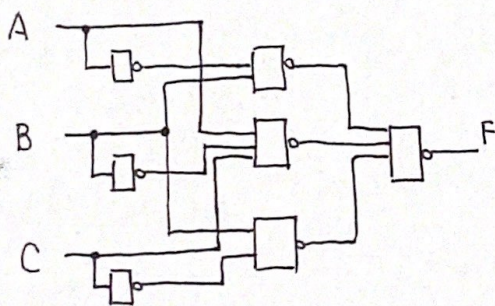
4.21 (1)



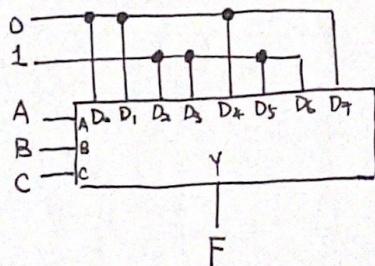
(2)



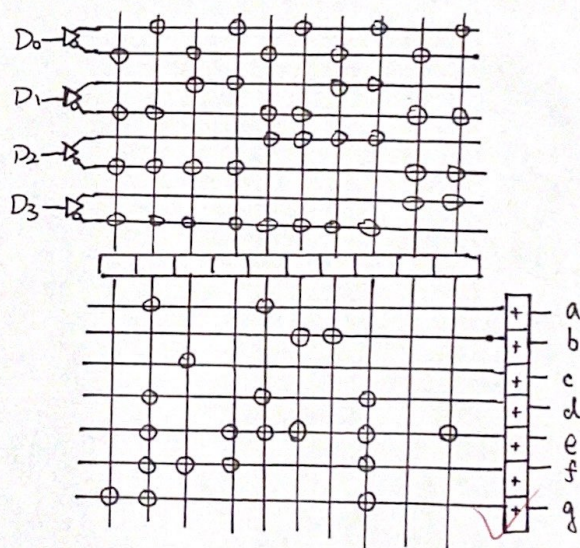
4.20. "与非"门:



8选1:

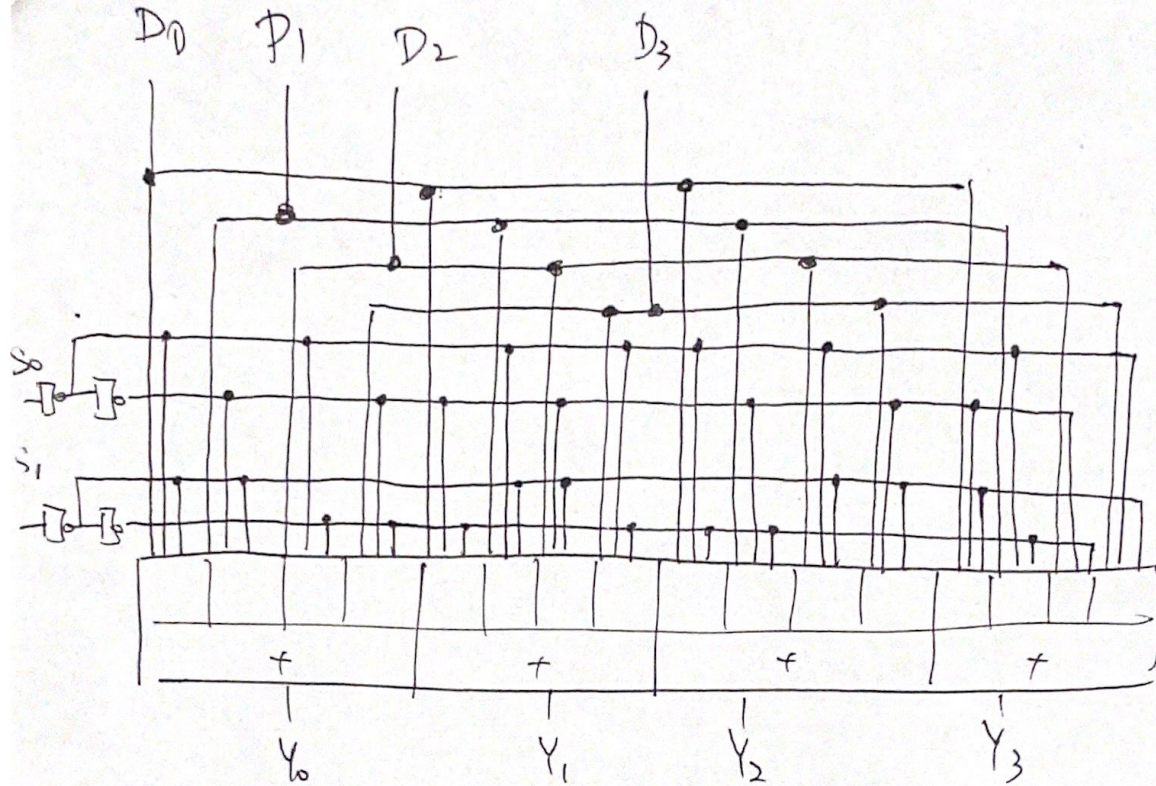


7.5





4.12



功能表:

$S_0$	$S_1$	$Y_0$	$Y_1$	$Y_2$	$Y_3$
0	0	$D_0$	$D_1$	$D_2$	$D_3$
1	0	$D_1$	$D_2$	$D_3$	$D_0$
0	1	$D_2$	$D_3$	$D_0$	$D_1$
1	1	$D_3$	$D_0$	$D_1$	$D_2$

逻辑表达式

$$\begin{cases}
 Y_0 = \bar{S}_0 \bar{S}_1 D_0 + S_0 \bar{S}_1 D_1 + \bar{S}_0 S_1 D_2 + S_0 S_1 D_3 \\
 Y_1 = S_0 \bar{S}_1 D_0 + \bar{S}_0 \bar{S}_1 D_1 + S_0 \bar{S}_1 D_2 + \bar{S}_0 S_1 D_3 \\
 Y_2 = \bar{S}_0 S_1 D_0 + S_0 S_1 D_1 + \bar{S}_0 \bar{S}_1 D_2 + S_0 \bar{S}_1 D_3 \\
 Y_3 = S_0 \bar{S}_1 D_0 + \bar{S}_0 S_1 D_1 + S_0 S_1 D_2 + \bar{S}_0 \bar{S}_1 D_3
 \end{cases}$$

