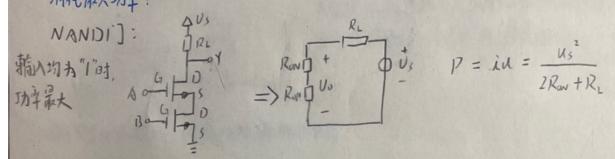
清华大学数学作业纸 (科目:



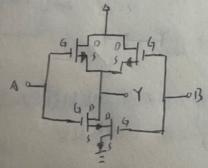
编号: H3

班级:能源25 姓名: 吳展聪

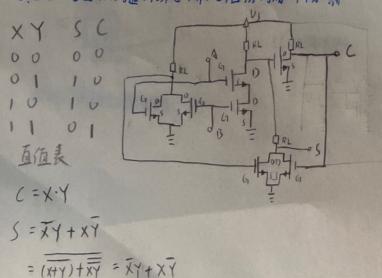
1.对于用内沟道增强型MOSFET构成的两颗入NANDIT和两颗入NORIT来说,同时 消耗最大功率?



2.用2个内海道MOSFET,2个产沟道MOSFET和电派来构成不消耗静态功率的NANDI]



3. 用5V电源、n沟值MosfeT和电阻器构成一个物器



清华大学数学作业纸 (科目:

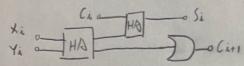
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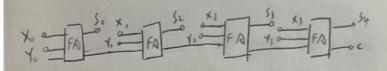
姓名:

4. 用两个半加器和一个链接门的成一个生加器FA

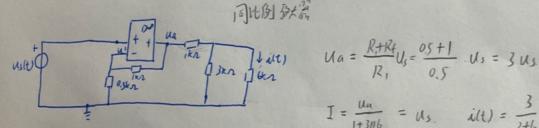
将生加器两躺入与前级进位相加。这数作为半加器的 加恒,同时因为不可能两位的为1,因此使用OXIT



5.用4个星加器构成一种作二进制敬的加法器



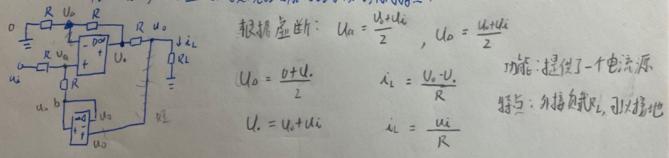
6 uslt)=sin4tV, PM R2=2R,=1KD, £ilt)



$$Ua = \frac{R_{+}R_{+}}{R_{1}}U_{s} = \frac{0.5 + 1}{0.5}$$
 $Us = 3 Us$

$$I = \frac{uu}{1+306} = us$$
 $i(t) = \frac{3}{3+6}I = \frac{1}{3}u_5 = 0.3336in44$

7. 注电路至现了什么功能?,与证登进投了发现这功能的电路相比,有何格益?



$$I_0 = \frac{0+U}{2} \qquad \qquad I_L = \frac{U_0-U}{R}$$

$$l. = V_0 + U_0$$
 $i_L = \frac{U_0}{V_0}$

8. 起则这部的猛出电阻为0.

$$u_0 = \mathcal{O}(u_+ - u_-) = -(u_+ - u_-)$$
 $|\Delta| \mathcal{O} \neq -1$
 $|\Delta| \mathcal{O} = 0$.

 $|\Delta| = \frac{u_0}{u_0} = 0$.