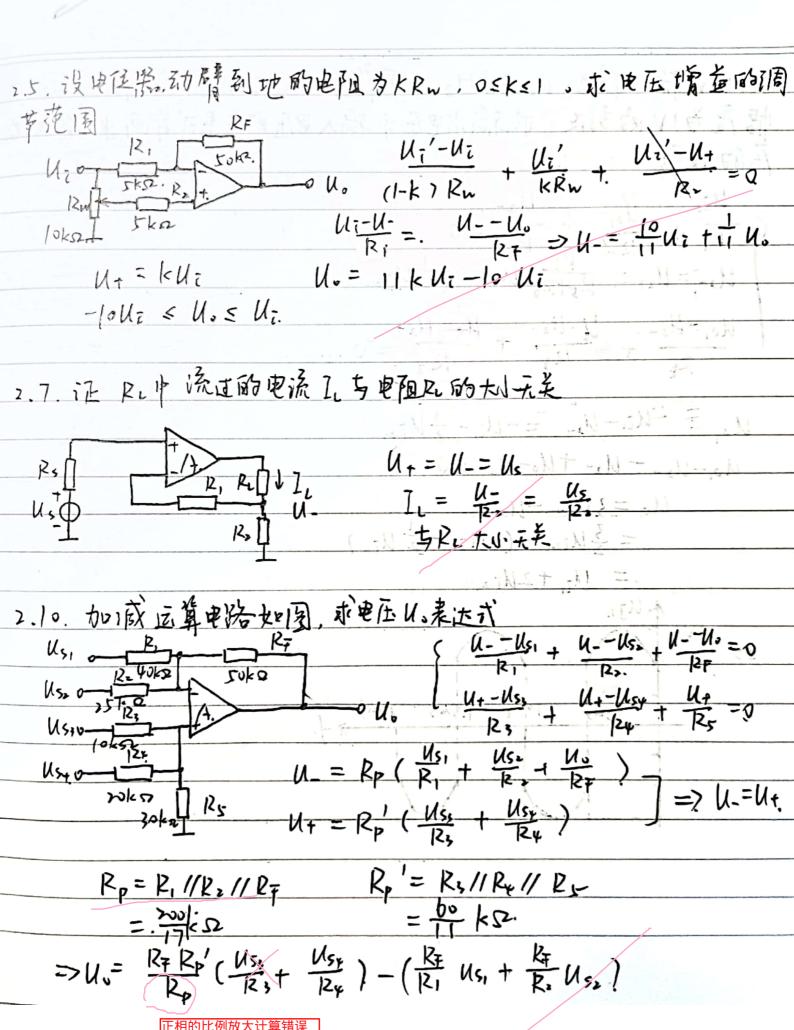
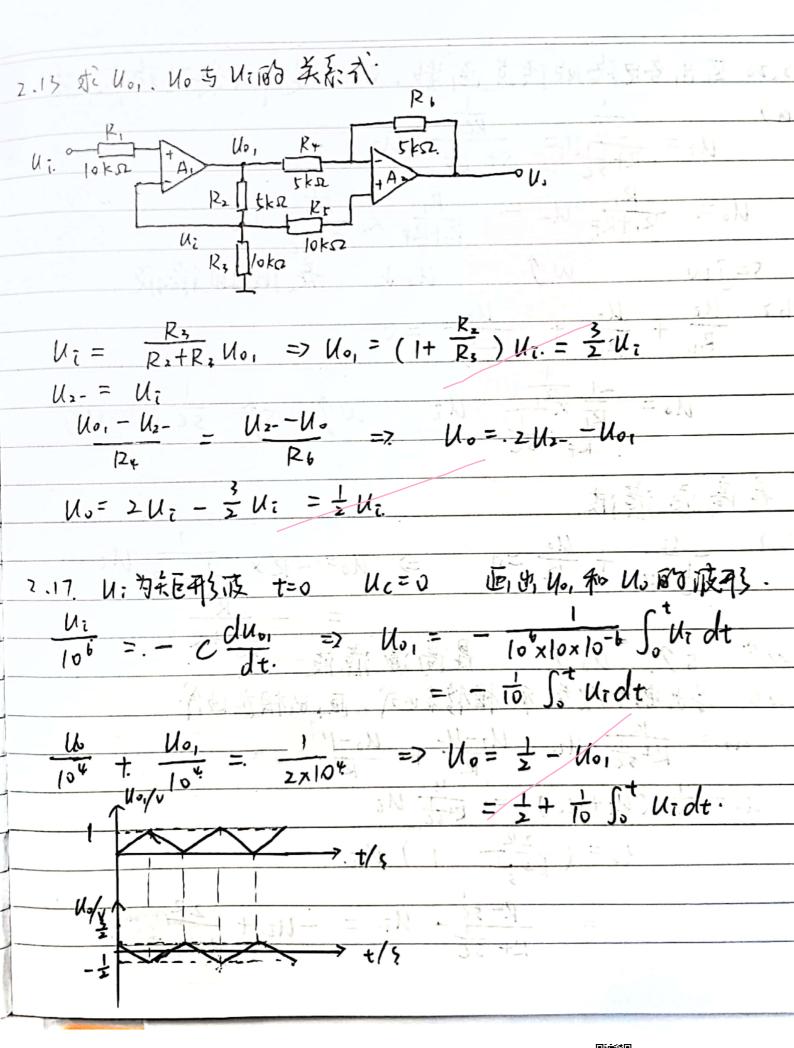
第一章作业 Rb = Rg = R10 = 20 k12 (1) 到出 U.和 Voi. Uoz 前袭达式 (2)设从11至0、3V,从12=0.1V,则求输出电压40的值 Rg = xx Noi Ui> Rs Rb 10 $=> U_0, = -\frac{R_2}{12}, U_{7_1} = -U_{7_2}$ U1+ = U1- =0 Uoz = 3 Uiz \Rightarrow => U0 = 2(U0, - U0,) uo, - Uz- us- - Uo = 2 (= Uis + Uz.) = 3 Ui, + 2 Uz, 12) No= 3x01+2x0.3 = 09V.



學 扫描全能王 创建 2、11. 设输入信号 Ui,为1kHz、幅度为1V的正弦波, Ui,为1kHa 幅度为11的方波,求确出电压和输入电压的关系式并画出新出电 压的波形 $U_{0} = -U_{\bar{i}_1} - U_{2-} = -U_{\bar{i}_1} - \frac{1}{2}U_{\bar{i}_2}$ U0,-U2-- U2-+U0-U2-=0 Us = 3 Uz- - Us. = 3 Uiz - (-Ui, - 2 Ui,) Uz, +2472. Uo.



2、20写出各电路的传递逐数,说明是什么类型的修改器 $U+=\frac{1}{R+\frac{1}{5}}U_1^{-2}\frac{RC}{S+\frac{1}{RC}}U_2$ a) U. =. RI VI = RI VI STOC VI S=jww1 U.1 是所通滤液 $\frac{1}{R_1} + \frac{U_0}{R_2} + \frac{U_0}{SC} = 0$ $U_{\circ} = \frac{-\frac{1}{R_{\uparrow}}}{\frac{1}{R_{\uparrow}} + \frac{1}{SC}} U_{\circ} \quad W_{\circ} \int \frac{1}{SC} \sqrt{\frac{1}{SC}} U_{\circ} \int \frac{1}{SC} U_{\circ} \int$ 是高通滤波. $\frac{u_1}{s_C^2 + R} + \frac{u_0}{R^2} = 0 \Rightarrow u_0 = -R \times \frac{1}{s_C^2 + R} u_1$ wが s1 U,か 是高通滤波 5cm. 2.23、星出电路增益和.相移表达式,距,出相应曲序 $u_{+} = \frac{R}{R + \frac{1}{5C}} u_{1} \quad u_{2} - u_{-} \quad u_{0} - u_{-} \quad u_{0} - u_{-} \quad u_{0} - u_{-} \quad u_{0} - u_{0} \quad u_{0} - u_{0} \quad u_{0} = 0$ U-= 12 (U1+U0) = Rts Ui $U_{3} = \left(\frac{2R}{k+\frac{1}{c'}} - 1\right) U_{\overline{1}}.$ $= \frac{R-5c}{R+5c} U_{1.} = -U_{1.} + \frac{2R}{R+5c} U_{1.}$

$$\Rightarrow -R^{2} - \overline{w_{0}^{2}C^{2}} = \frac{2R}{W_{0}C^{2}} \qquad \Rightarrow W_{0} = \frac{1+\sqrt{2}}{RC^{2}}$$

$$\frac{U_{0}}{U_{1}} = \frac{R-\frac{1}{2}}{R+\frac{1}{2}C} = \frac{1-\frac{1}{2}\times\frac{W_{0}}{1+\sqrt{2}}}{1+\frac{1}{2}\times\frac{W_{0}}{1+\sqrt{2}}} \qquad (1+\sqrt{2})-\frac{W_{0}}{2W}$$

$$= \frac{(1+\sqrt{2})+\frac{W_{0}}{W_{0}}}{(1+\sqrt{2})-\frac{W_{0}}{W_{0}}} \Rightarrow \frac{1+\sqrt{2}}{1+\sqrt{2}} \qquad (1+\sqrt{2})+\frac{W_{0}}{2W}$$

$$= \frac{(1+\sqrt{2})+\frac{W_{0}}{W_{0}}}{(1+\sqrt{2})-\frac{W_{0}}{W_{0}}} \Rightarrow \frac{1+\sqrt{2}}{1+\sqrt{2}} \qquad (1+\sqrt{2})+\frac{W_{0}}{W_{0}}$$

$$= \frac{1+\sqrt{2}}{1+\sqrt{2}} \qquad (1+\sqrt{2})+\frac{W_{0}$$

还要注意w=0时, Au=-1,实际应该从180°开始变化。