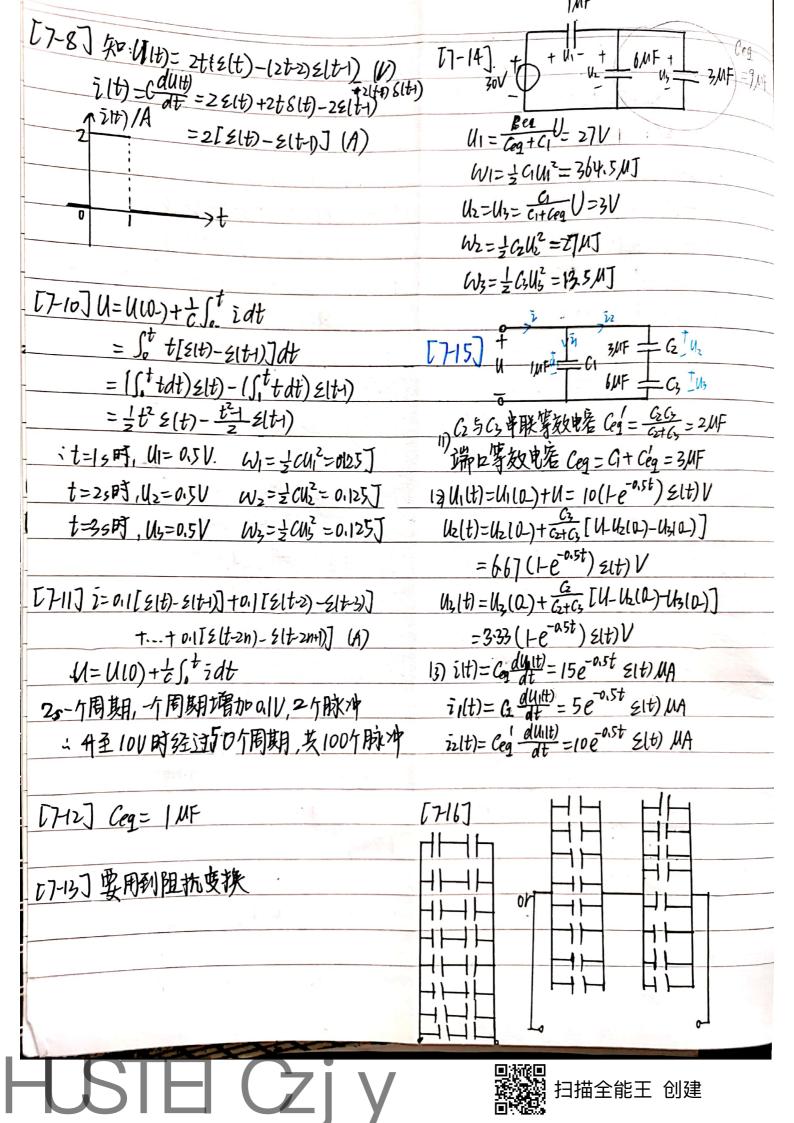
课剧题

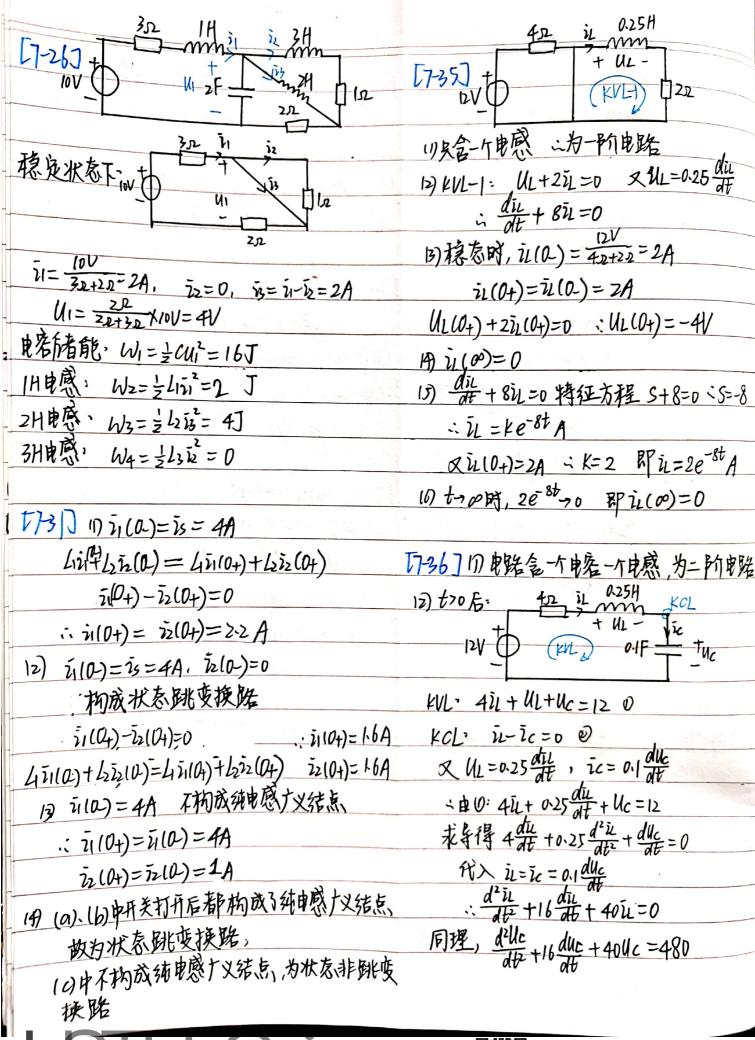
[71] filt) = -4 21t) [73] (1) (a) fi=2[51t)-51t-1)]-2[5(t-1)f2(t+)=5[2(t+)-2(t3)]-3[4+3)-2(t-5)] 5(t-2)] =25(t)-45(t-1)+25(t-2) =55(t-1)-85(t-3)+35(t-5) (b) f2= 2(t1)-2(t2)+22(t2) folt) = (2-t) [2(t-1)-5(t-3)]+(t-9)[2(t-3) = 5(t+)+5(t-2) - E(t-5)] + Elt-5) (a) f3 = 2t[8(t)-8(t-1)]+28(t-1) = (2-t) \(\xeta\) + (2t-6) \(\xeta\) + (5-t) \(\xeta\)-(5-t) = 2t &(t) - (2t-2) &(t-1) (d) f4=t[51t)-5(t4)]-=(t-3)[5(t-1)-5(t-3)] [72] (1) filt) = e t s(t) =t &1t)-}(t-3)&(t-3)&(t-3) 12) dfilt = -e-t &(t) + e t &(t) $= S(t) - e^{t} \leq (t)$ $= \int_{\infty}^{(3)} \int_{0}^{t} f(t) dt = \int_{0}^{\infty} e^{-t} dt \leq (t)$ [74] filt)=2, filt)=2e-4 filt)= 2e4sinz V =(+e-t)=(t) [7-5] I= C dy (u felt) i i-8e-th (1-2t) MA 12) df2(t) - 8(t) + 8(t) - 28(t2) (3) 5 to Felt) dt = (5 t 1 dt) 21t) $\rightarrow t + (\int_1^t idt) \epsilon (t-1)$ W= = Cu2=1.6x105t2e-4t] $+(\int_{2}^{t}-2dt)(2t^{2})$ 17-6] U= U(0-) 付 idt U(0-)= = 本X10多 Sa 0.4e alt SIt) dt U(a)=0 = t2(t)+(t-1) E(t1)-2(t2) E(t2) in falt) (2) df31t) = Cost & lt) + sint & lt) - cost & lt-1) - sint & lt-1) = (1-e-1) X103V W= 主Cu2= 2x(トe1)2x103丁 = cost [\(\) - \(\) [\) -51n18(t-1) >t [77] W= {cu2 - {cu2 = 84] 13) $\int_{\infty}^{t} f_{3}(t) dt = \int_{0}^{t} s_{1} nt dt (t) = \int_{0}^{t} s_{1} nt dt (t) = \int_{0}^{t} s_{2} nt dt (t) dt (t) = \int_{0}^{t} s_{2} nt dt (t) dt (t) dt (t) dt (t) =$ D F= ¥=84N == Q = CU-Ch = 0.12A = (+cost)<)-(cos1-cost)<-1)

HUSTEI Czi y





[7-17]开关闭合后, 的纯电容回路 和反含电容的纯电容回路,为 田为电路中有电阻、不构成纯电窑回路 状态跳变换路. (b) (c)中满足的KVL关系门 二为状态非跳变换路 故结果不同 = U1(0+)=U1(0-)=3V, a2(04)=U2(0-)=9V 13不指定(1160).(15(0)的值就不知道满足的 12) WI= = GUI2 + = GUZ = 85.5] 肺守恒方程,就算不出来 B) Ceg = CIC2 = A 57 F ULO+)=U1(0+)+U2(0+)=9V+3V=12V [7-19] U1(0+)=U1(0-)=5V, W = = Ceg Ula) = 48] Uz(0+)=Uz(0-)=2V t=00 PT, U1100)+U2100)=0 (bit, KUL, U104)-U2104)=0 102 +45 世上,作烟水面,电荷和 GU1(0+) + GU2(0+) = GU1(0) + GU2(0-) : au10)-64210-) : 1/10+)=3V N2(0+)=3V 41(00)=5V = GU1(00) - CZUZ(00) - U1(00)= -5V, U2(00)=5V U2(00)=-5V [7-20] (0).(16)中开关闭合后都构成纯电客 15) W(0)== C(U) = 37.5] 回路, 都是状态跳变换路 (4) SW= W1-W(0) = 48] (a) \$, U10-) = U2(2)=5V U110+)-U210+)=0 [1] 4 [0] 4 [1] U1 (0+)= 4, (0-)= 5V, au, (2)+ au210-)= au, (0+)+ au 10+) Uzl0+)=Uzl0-)=2V =: U1(0+)=1610+)=5V (b)中, U1(0+)+12(0+)=10V (由KVL) (6) 4, 4, 10-)=115=5V 由电荷守恒; GU1(0)+GU2(0-)=GU1(0+)-GU2(0+) U1(04)-U2(04)=0 : U1(04)=7V W2(0+)=3V au10-)+ Guzla)= au10+)+ GUzla+) (c)+, U1(0+)+42(0+)=0 ~ (10+)=1210+)=5V au1(0)-C2l2(0-) = C14,(0+) + C2l2(0+) [72] UL=Lan = U1(0+)= 3V U2(0+)=-3V (1) UL = 0 12) UL=28(t) mV = 2[8(t)-10e-10t/2(t)] 12) 区别·(a)中不构成纯睹。回路,为状态非 13) UL = 2e 10t [-1021+) + S(+)]mV 跳变换路,(b)(c)中分别构成含独立电压源 4) it=[2004t &(t)+25int &(t)]m/ =40st z(t) mV 扫描全能王 创建



非作业课后题 13)开关打开前: Uclo-)= 元 XIZV= 4V [7-22] i = [10-)+ + s. UL dt = (+5(1-e-10)) 2(+) 11(0)=12= ZA tro的, i=(6-5e-10t)A Uc (0+)=Uc(0-) = 4V t=15时, 4=6-50 1A W= =12 IL(O+)= IL(O-) =2A ic (0+) = IL (0+) = 2A [7-26]. -「内水中」 & i= Juldt= SXN2A UL(0+)=0 . 100个用化叶 19) duc | 0 = 10 icl0+)=20 V/s [724] AN==[liz-=liz=0192] d# 0+ = 44L(0+)=0 dt=800 Als U=Lat=320V 注意正负号 15) Uc(@)=Us=12V, 12(@)=0 16) A42 +16 duc +404c =480 [7-25] + 20 | U1 2A O 特征方程: 52+165+40=0 · S1=-8-216 =-3.1 特解: 480=12 : Uc= ki e^{-12.9t}+&e^{-3.1t}+12 知可=2=2V Uc=10V+U1=12V- 12=1A -, & Udlo+)=4V . (Kitkz+12=4 ~ W1== CUc=T=T=J W===Lu==J | duc (0+) = 20V/s |-12.9K1-3.| K2=20 $: k_1 = 0.49 \quad k_2 = -8.49$ $: Uc = (0.49 e^{-12.9t} - 8.49 e^{-3.1t} + 12)V$ [7-27] 2H [7-29],11) Leg = 3H 12) N=11-e-0.5t) Slt) A, 2=2(1-e-0st) Slt) A 17) t-005. Uc-12V=U(0) 4= 2 at = 3 e ast 211)V Uz=1,5 diz=1,5e-ast E(t) / [7-30] 非跳变换路 INLO+)= INLO-)= ZA , IZLO+)= IZLO-)=/A k) W== Lin(04) + = Logi(04) = 7.5] == Logi(04) 13) Leg = 15H. 1(0+)=3A Wo=675] 4) t=0 pg, i1(00)+i2(00)=0 LIN(0-) + Lizz(0-) = Lizz(0-)+Lizz(0) in In(00) = 0.5A, iz(00)=-0.5A 3 扫描全能王 创建