

由着加定理孔(0)= ZA+2402 =3A - il=3(1-e-80t) A [8-18] g.确定时间岸数· 10V] Roj=(1021/152)+(3221/82)

[]3252

=12.452 : T= Reg C=12.45

@ Uc(O+)=Uc(Q)=0 日移意: UCIの= 20 x (-8 x10+5x52)= 8V

= Uc=8(1-e-52) Elt) V

[8-31] C=2F时,时间常数T=Reg C=4s

二从电客元件两端看进去的等效中里Reg=Zz

:电客换成电感时 Reg不变 T'= 1/5

接晚时, 46(04)=量1, 46(00)=是1

达稳态时, 电经相多于断路, 电流为D, 相多于电感则

接入,电流为明状态、二、40(4)=之1/

电容刚接入时其两端电压为0相与于被短路,即电 感接入达稳态的情况 :\u(0)=€V

: U. '= U. '(P) + [U. (P) - W(P)] = to

 $=(\frac{5}{8} - \frac{1}{8}e^{-t})\Re(t)$ V

M loker

KCL-1, Un + Un-U] = 3 E(+) V KCL-2: U1-40 = 1x0 of du = du +100U0=1200 特征方程 S+100~ : S=-100 特解从-1200-12

~ Uo=12(1-e-100t) E(t) V

13) Z Ui=12 E(t)V à Vac) 7/2V

[84] 6 2 Us = 5(t) 1 7 Uc = 5(t) 1 2 所跃响应 1 2 1 3 1 4 1 5 1 6 1 7 1 7 1 8 1 9 $^$

 $Mc = (-e^{t}) \mathcal{L}(t) V$ $ic = c \frac{duc}{dt} = e^{-t} \mathcal{L}(t) A$

当Us=-(t-1)[を(t)-を(t-1)]/时

Uc = for Uc(t) hit-t) dt

 $=\int_{0-}^{t}-(\tau-1)[\xi(\tau)-\xi(\tau-1)]e^{-(t-\tau)}\xi(t-\tau)d\tau$

 $= \int_{0}^{t} - (\tau_{1}) e^{-(t-\tau)} \Sigma(\tau) \Sigma(t-\tau) d\tau - \int_{0}^{t} - (\tau_{1}) e^{-(t-\tau)} \Sigma(\tau_{1}) \Sigma(t-\tau) d\tau - \int_{0}^{t} - (\tau_{1}) e^{-(t-\tau)} d\tau \int_{0}^{t} \Sigma(\tau_{1}) \Sigma(t-\tau) d\tau = \int_{0}^{t} - (\tau_{1}) e^{-(t-\tau)} d\tau \int_{0}^{t} \Sigma(t-\tau_{1}) e^{-(t-\tau)} d\tau \int_{0}^{t} \Sigma(t-\tau_{1}) e^{-(t-\tau_{1})} d\tau \int_{0}^{t} \Sigma(t-\tau_{1}) d\tau \int_{0}^{t} \Sigma$

=(-2e-t-t+2)5(t)-[-e-(t-1)+(Lt)+1]5(t-1)V

ic = (duc = [(2e-t-1) & lt) + (-e lt+1) + () & lt+1)] A

[8-48] to Uc = IF DER OZEIT) A

leg = 60/13/2=2/2 T = CReg =2s 40 lc(0) = 0, $10 \text{ lc}(0) = 2 \times \frac{6 \times 3}{6 + 3} = 4 \text{ lc}$

ic(0) = \$8(+)

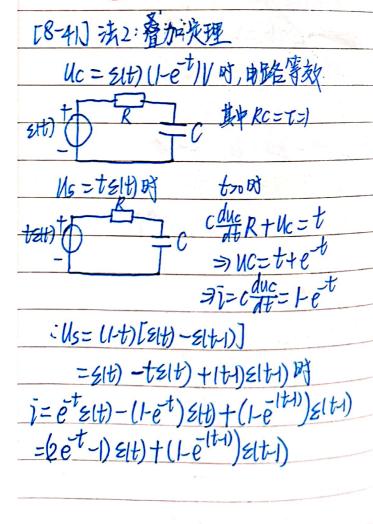
Uc(0+)=Uc(0)+to Sa ic(0) dt = = = 121t) V ile=Uc(00)+[Uc(0+)-Uc(00)]e==(4-11e=)/11)V took, ic=cdic=[te=\$210+\$8(+)]A

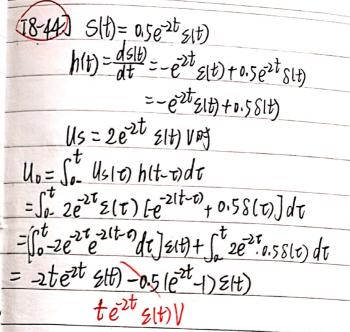


|扫描全能王 创建

$$[8-4t] T = Rc = (5 \cdot \hat{z} is = 2lt)_{f}$$

$$P(l) lc = 2lt) (l-e^{-t}) z(t) (l-$$





$$U_{2}(0) = 0.58(t)V, \ 2i(0) = 0$$

$$i_{2}(0) = i_{2}(0) + i_{3}(0) + i_{4}(0)dt = 0.52(t)A$$

$$Req = 40.52. \quad T = \frac{1}{12} = \frac{1}{405}. \ i_{2}(0) = 0$$

$$\vdots \ i_{2} = 0.5e^{-40t} 2(t) A$$

$$\Re(2 + 2i)V$$

$$\Re($$





妇描全能王 创建

: Voz = (214+2112e-125x1651t=x106)) V (t>3,45) [8-59] W T= Rab C = 0.1 : Rab=105 ST 13 Uola)=(1010+)=5V [8-57] T= pc=102s=10ms 5T>T 13将US置塞 M 放在is作用F U1= 1+e= U5 = 7.3V Uolo+)-Uolo)=-8V XUolo+)=5V $U_2 = \frac{e^{-\frac{1}{2}}}{1+e^{-\frac{1}{2}}}U_5 = 2.7V$ = Ug(P)= 13V = K=U0102=13 in 10=5(10-7.31e 100t) V, 0< t< 0.015 的知识单独作用时,Un(09)=13V 7.31 e 1001 t-0.01) V, 0.0152 t < 0.025 又Us, is 共同作用时 Uo(の)=20V ·· Us 单独作用时, Uo21007=7V [8-58] 11) Woj + Wo + 1X,0 6 duo = 0 0 = 40= (7-20 10t)V 2000 + 1000 + duo = 0

100 + 1000 + duo = 0

100 + 1000 + 1000 = 0 13) W= = Cu2 = U0(0+)= 540(0+)=542V Uo(00)=7V-13V=-49V-6V 烟里不到灯 100Us + 20U01 + dlo) = 0 · · Uo'=[-19+(55+19)e-10t]/、疑意, W 45-250mV = duo1 +20401+25=0 (-6+16e-10t)V 药原来的 工作 Uo1=125e-20t-125)V 如何等效 ~ 50e-20t-50+10U0+ du. [8-60] + Uc 29 y'+10y=-50e-20t+50 1/h1=5 /h= 电名中感在两个独立国路 Y= e foot (S(50e rot +50) e sout dt +c) 1) teom, iz = 10V = 2.5A. Uc + 512 = 2h $=e^{-iot}(sos(e^{iot}+e^{iot})dt+c)$ trops: (0+)=12 (0-) =2.5A Uc (0+)= Ue10-)=-17.5V $=e^{-10t}(5e^{-10t}+5e^{0t}+c)$ L国路 Reg=2/2. Ti= Reg=18 12(0)=10V=5A $=5e^{-2ot}+ce^{-1ot}+5$: il=(5-2.5e-t) A (+70) X U000)=0 = U0 = (5e^{tot}-10e^{-10t}+5)V 13) C回路 UC+5让=0 i=-(i+cduc)=-(i+2 d(-51)) VO) US MAX E 300mV = 2.5et-5+102.5et=(275e-t-5)A [8-60](6)、有侧电影有跳变 3) ITO)=22-5A -108(t)A Uc(0-) =-751 =-17.5V No + 45/ = (2.58 7-25) 21t) = Uc (04)=-12.5V UCLO+) +51210+)=0 ie=c# = 25e t 2(t)+ (25e t 50) 8(t) -12.5=-17.5- = 504 200 at : 10)=-108H)