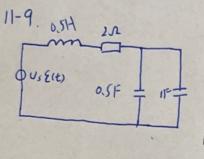
(科目:)清华大学数学作业纸



班级:

姓名:



L=051+ 0.5F + 1=+ p2+22p+w2=0. p2+ Rp+ 1 = 0 $p^2 + 4p + \frac{4}{3} = 0$ 4-44 >0

为过阻尼非振蕩衰流

SELETIMA Sur $u_1 = -8000i$ t $u_2 + 2000i$ c i = -8000it $u_1 + 2000i$ c i = -8000it $u_1 + 2000i$ c i = -8000it $u_2 + 2000i$ t i = -8000it $u_1 + 2000i$ t i = -8000it $u_2 + 2000i$ t i = -8000it i =\$ 2000ic uc = L dic = -L dic = -Lc duc Lc du +6000 c du +u = 0.

10 p2+6×10-4p+1=0

p2+6000p+107=0

6000 2 - 4 × 10 7 60.

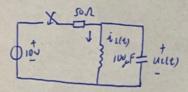
为欠旧尼良城报

P = - 3000 ± 1000j

S = 30005', W = 1000 rad /s.

11-10

求不到情况 礼(t), 并画出波形 (1) L= \$H(2) L=0.1.H

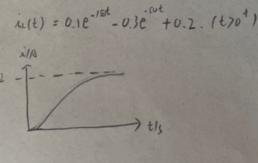


(1) L= 4H p2+2×p+w02=0.

p+ 200p+ 7560 = 0

200°-4×7500>0 过阻尼

ic(t)= DeRt + Bost = Ae-150+ + Be



icit) = Ae -sut +13e +0.2

(ALIUT) = -150A - 5013 = 0

(illot) = A+B+0.2=0

"电路无初始伤能

$$\frac{du}{dt}|_{t=0+} = \frac{u_L(u^*)}{L} = 0$$

$$M_L(\omega) = \frac{10}{50} = u_1A.$$

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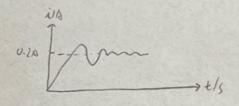
班级:

页

$$i_{L}(t) = k e^{-\alpha t} \sin(w_{\alpha} + \theta)$$

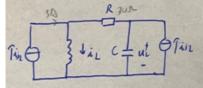
$$= k e^{-100t} \sin(300 t + \theta)$$

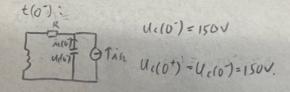
=>
$$\{ k = -0.21 \}$$
 tom9 = 3



11-17

$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}$







(科目:) 清华大学数学作业纸



页

编号:

班级:

8-18. Zza Usi = IV, usi = 2V, R, = 21, R, = K, = 41, L= 5H, (= = 1=. twelt).

$$(0)$$

$$i_{L}(0) = \frac{1}{4} = 0.25 A = i_{L}(0^{+})$$

$$U(10) = 10 = U(10^{+})$$

$$\lambda(0^{+}) = -\frac{2+1}{4} = -0.75A.$$
 $U_{0}(0) = 14.$

$$R_{eg} = 2114114 = 12.$$

$$2d = \frac{1}{R_{eg}c} = 5$$

$$W^{2} = \frac{1}{C}c = 6.$$

$$P^{2} + 5p + 6 = 0 \quad \text{ITBE}$$

$$P_{1} = -2, P_{2} = -3.$$

$$U_{1}(t) = Ae^{-2t} + Be^{-3t} + 1$$

$$U_{1}(t)^{2} = A + BH = 1$$

$$U_{1}(t)^{2} = -2A - 313 = \frac{-\lambda(0^{4})}{C} = -3.75$$

$$B = -3.75$$

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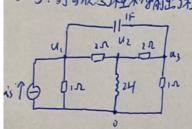


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班级:

姓名:

15-5. 到写版法弹和新出3程



$$\begin{cases} u_{\alpha} = u_{\alpha} \\ (\frac{1}{2} + \frac{1}{2})u_{\beta} - \frac{1}{2}u_{\alpha} = -i_{2} \\ (1+1)u_{\alpha} - u_{\alpha} = -i_{2} \end{cases} = \begin{cases} u_{\alpha} = u_{\alpha} \\ u_{\beta} = 0.5u_{\alpha} - i_{\alpha} \\ u_{\alpha} = 0.5u_{\alpha} - i_{\alpha} \end{cases}$$

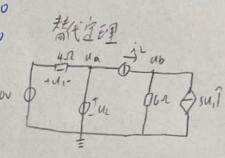
$$i(=is + \frac{ud-u_a}{1} + \frac{ub-u_a}{2} = -0.75u_c + 0.51s$$

$$u_c = u_b - u_d = -1.5 \text{ i. } + 0.3 \text{ is.}$$
 $i_c = c \frac{du_c}{dt}$ $u_c = L \frac{di_c}{at}$

$$\begin{cases} u_1 = u_{a} - u_{d} = 0.5 u_{c} - 0.5 \dot{a}_{L} + 0.5 \dot{a}_{S} \\ u_2 = u_{b} - u_{d} = -1.5 \dot{a}_{L} + 0.5 \dot{a}_{S} \\ u_3 = -u_{d} = -0.5 u_{c} - 0.5 \dot{a}_{L} + 0.5 \dot{a}_{S} \end{cases}$$

(科目:)清华大学数学作业纸

编号:



$$\begin{cases} U_{0} = U_{1} \\ \frac{1}{6} U_{0} = \lambda_{1} + SU, = \end{cases} \begin{cases} U_{0} = U_{1} \\ U_{1} = 10 - U_{0} \end{cases}$$

$$\begin{cases} U_{1} = 10 - U_{0} \\ U_{2} = -30U_{1} + 6\lambda_{1} + 300 \end{cases}$$