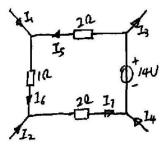
2003年



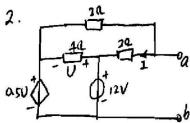


$$\begin{cases}
1, +1_2 - 1_3 + 1_4 = 0 \\
1_1 + 1_5 - 1_6 = 0
\end{cases}$$

$$J_2 + 1_6 - 1_1 = 0$$

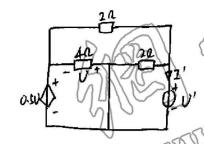
$$21_5 + 1_6 + 21_7 = /4$$

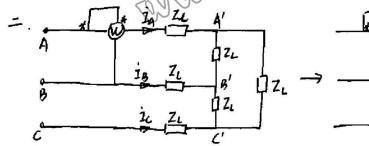
$$\begin{cases}
1_4 = 2A \\
1_5 = 2A \\
1_6 = 4A \\
1_7 = 3A
\end{cases}$$



1. Vab = 127 (-27x2 = 8V

里用外加电源 击成206





$$\hat{A}_{A}^{2}:1)Z_{L}^{\prime} = \frac{1}{3}Z_{L} = \frac{1}{4} + \frac{1}{12}Z_{L}^{2}$$

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$$\hat{A}_{A}^{2} = \frac{380}{20}\frac{1}{20}(V) \cdot \hat{A} = \frac{220}{20}\frac{1}{20}(V)$$

$$\hat{A}_{A}^{2} = \frac{220}{20}\frac{1}{20} = \frac{220}{20}\frac{1}{20}(V)$$

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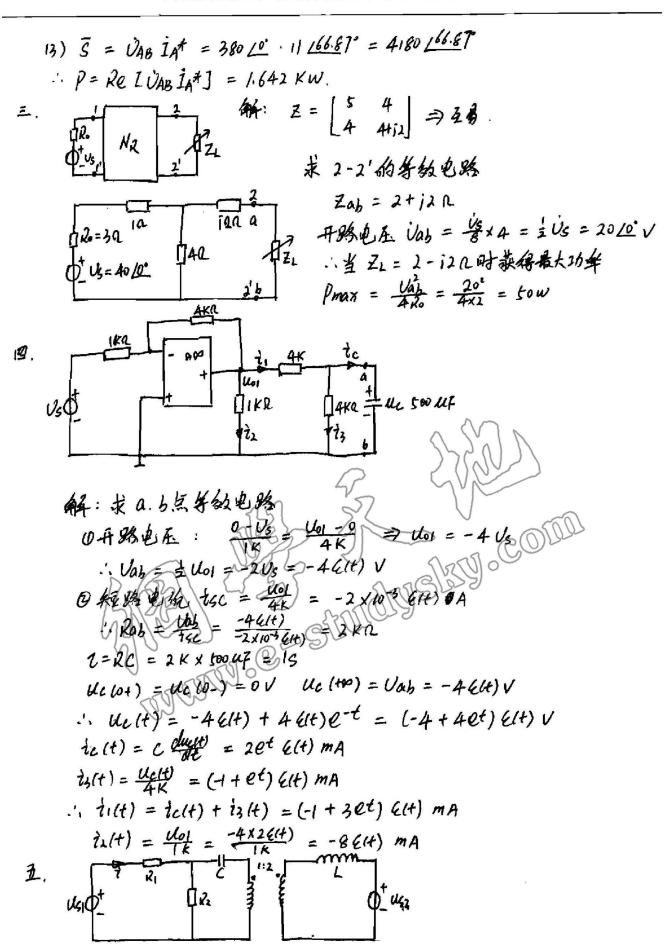
$$\hat{A}_{A}^{2} = \frac{1}{20}\frac{1}{20}(V)$$

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(2)
$$P = 3U_4 I_4 \omega_5 \psi = 3x220 \times 11 \times \omega_5 (36.87^\circ) = 5.808 \text{ KW}$$

$$Q = 3U_4 I_4 \sin \psi = 3x220 \times 11 \times \sin (36.87^\circ) = 4.356 \text{ KVay}$$

$$S = \sqrt{P^2 + Q^2} = 7.26 \text{ KV-A}$$

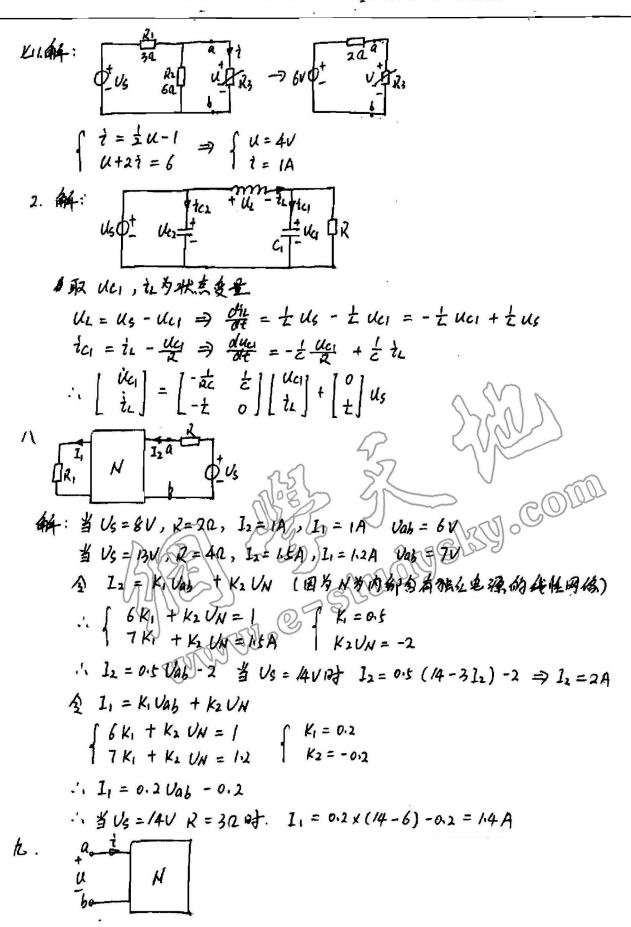


2

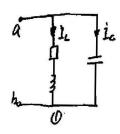
解: 应州岛加定理 O当 Usi 英独作用, 原边等级电路为: 当 以 3 = 10 V 时 $\frac{1}{10} = \frac{10}{10 + 10} = 1A$ inc + = ZL = 10j + = xj x non x40 x10-3 = 01 1. tiu) = is1 = 2190° A 1.1.1+) = 1+ 25 Sin (1000t) A O当U42单独作用时: ZL = 2.5 + 100 = 2.5 1700 副边等级电路如下: (: t2(t) = -2,52 (05 (1000 t)) 11(1) = 1.(+) + 72(t) = (+252 (4/1000) -252 (05(1000)) = 1+25.525/ (1000t-2)=1+45m (1000t-2) A Pr = 1 = 45 W 六解: (1) Uclo-)=lov 1210-)=== 5A (2) (3) (1+年+45)(15)= -3 -2.5-20 $U_{6} = \frac{-105^{2} - 525 - 40}{(5+1)^{2} (5+2)} \implies U_{C}(5) = \frac{105^{2} + 525 + 40}{(5+1)^{2} (5+2)}$ $k_{ij} = \lfloor (s+1)^2 V_{C}(s) \rfloor |s=1=-2$ $= \frac{k_{i1}}{(s+1)^2} + \frac{k_{i2}}{(s+1)} + \frac{k_2}{s+2}$ $K_{12} = \frac{1}{2}(5+1)^2 Ve(5)|_{5=-1} = 34$ $K_3 = (5+2) Ve(5)|_{5=-2} = -24$: Ucu) = -2t e-t + 34e-t -24 e-2t v (+ 20)

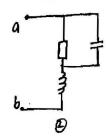
西南交大《电路分析一》、《电路分析二》考研全套视频,真题、考点、典型题、命题规律独家视频讲解! 详见: 网学天地(www.e-studysky.com); 咨询QQ: 2696670126

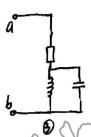
西南交通大学电路分析历年考研真题参考答案



新: 黑厘子问题, 出取直流分量对 R= 3 = 10 a 有从下几种可能的情况.







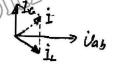
1)又以交流作用时:

我明安生谐振 与先王种情况不等.

(1)针对书-种情况画出相量图

Ung fi 心然有来都,不得处意,自在。 对第二种情况通出相量图

6) 对第二种 情况固出相量图



$$\frac{10 \times c^{2}}{10^{2} + \times c^{2}} = 5 \implies Xc = 10 \implies C = 1000 \text{ Up}$$

$$\frac{100 \times c}{10^{2} + \times c^{2}} + Xc = 0 \implies Xc = 5 \implies L = 50 \text{ mH}$$