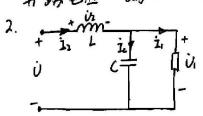
西南交通大学电路分析历年考研真题参考答案

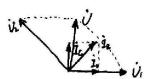


一、1. 斛:利用电源叠加汰。

等的电图: Rab = 62

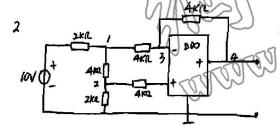
开路电压:166 = -41







$$\begin{cases} 1_1 = 2A \\ 2(1_1+1_2)+4+(1_1+1_2+1_3)+(1_2-1_4)+21_2=0 \\ 1_3 = 3A \\ 1_4 = 1A \end{cases}$$



- 放り+(私+ 旅)以= 株 Ux x2K = U3 =) U1 = 3 U3

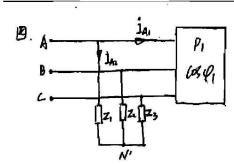
解: 鳳若网络川教殿大3分年

$$[A] R_{N} = to \Omega$$
 $P_{max} = \frac{tb_{\Omega}^{2}}{4R_{N}} = \frac{(4 \times to)^{2}}{4X_{N}} = 200 W$

$$j \times L + \frac{2 \cdot (-j/60)}{R - j/60} = j \times L + \frac{-2 \cdot j/60}{R^2 + 160^2} \Rightarrow R = 100R$$

$$\times L = 50 \text{ rad/5} \cdot H$$

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:
$$\dot{I}_{A} = \dot{I}_{A1} + \dot{I}_{A2} = 6.23 \text{ L}^{\circ} A$$

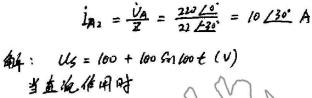
$$\dot{I}_{B} = 6.23 \text{ L}^{-121} A$$

$$\dot{I}_{C} = 6.23 \text{ L}^{119} A$$

103F 1100

<u> 1</u>.

#4:
$$\dot{U}_{AB} = 380/30^{\circ} V$$
 $P = 3 U_{A} I_{A}, U_{S} V_{A}$
 $\dot{U}_{A} = 220/0^{\circ} V \dot{U}_{B} = 220/-220^{\circ} V$
 $\dot{I}_{AI} = \frac{P}{3V_{A}U_{S}V_{A}} = \frac{t_{000}}{3\times 220\times 0_{85}} = 8.9/A$
 $U_{S}V_{A} = 0.85 \qquad V_{I} = 31.79^{\circ}$
 $\dot{I}_{AI} = \frac{\dot{U}_{A}}{3} = 8.91/-31.75^{\circ} A$



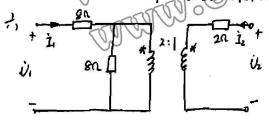
元= 100 = 10 A 直交流作用时:Xc=

we 100 XL = WL = 102

 $Z = \frac{(10-j10)(10+j10)}{10-j10+(10+j10)} = 100$ $16 = \frac{100}{10} \frac{1-90}{10} \quad \text{i. i.i.} = \frac{100}{10} \sqrt{-90} \text{ A}$

:. tust) = 10 4/1/00 + A

P= U. D. D. 1. 105 P, = 100 ×10 + 100 . 10 = 1500 W



$$2i | \begin{cases} 2n \hat{j}_{2} + \hat{j}_{2} \\ 2n \hat{j}_{2} + \hat{j}_{2} \end{cases}$$

$$4i = A \dot{j}_{2} - B \hat{j}_{2}$$

$$1 = C \dot{j}_{2} - D \hat{j}_{2}$$

$$2i = A = \frac{\dot{j}_{3}}{\dot{j}_{2}} | \hat{j}_{2} = 0 = 4$$

$$2i = A = \frac{\dot{j}_{3}}{\dot{j}_{2}} | \hat{j}_{2} = 0 = 1$$

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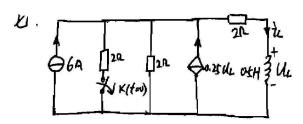
$$2i = A = \frac{\dot{j}_{3}}{\dot{j}_{2}} | \hat{j}_{2} = 0 = 1$$

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