









资料由公众号【工大喵】收集整理并免费分享

$$Xc = \sqrt{c} = \frac{1}{100 \times 0.4 \times 10^6} = 25000 \text{ A}.$$

$$Ic = \frac{Vc}{Xc} = \frac{80}{25000} = 0.0032 \text{ A}.$$

$$R = \frac{10}{Ic} = 3125 \text{ A}.$$

$$Xc = WL \implies L = \frac{Xc}{W} = 250 \text{ H}$$

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(5)

U) 由 kcl 与结点①·

15/20°= i,+i2 ①

$$i_1 = \frac{\dot{U}_{n_1}}{\dot{J}^2}$$
 ②

 $i_2 = \frac{\dot{U}_{n_1} - \dot{U}_{n_2}}{\dot{J}^2}$ ②

 $\dot{U}_{n_2} = 2i_1 = \frac{2\dot{U}_{n_1}}{\dot{J}^2} = -j \dot{U}_{n_1} \oplus$

书点 电压方程为

 $\frac{\dot{U}_{n_1}}{\dot{J}^2} + \frac{\dot{U}_{n_1} - \dot{U}_{n_2}}{-\dot{J}^2} = 15 \frac{130^\circ}{\dot{J}^2}$ ③ $\dot{U}_{n_2} = 30 \frac{150^\circ}{\dot{J}^2} \vee$
 $\dot{U}_{n_2} = -j \dot{U}_{n_1}$

(2) $\dot{I}_1 = \frac{\dot{U}_{n_1}}{\dot{J}^2} = 15 \frac{150^\circ}{\dot{J}^2} \wedge$
 $\dot{I}_2 = \frac{\dot{U}_{n_1} - \dot{U}_{n_2}}{-\dot{J}^2} = 2\dot{J} \cdot 2 \frac{1-15^\circ}{\dot{J}^2} \wedge$

(3) $\dot{I}^* = 15 \frac{150^\circ}{\dot{J}^2} \wedge$