

一、 填空题

- 1 2Ω , 0.64W
- 2 22.5J , 4.5J
- 3 10 , 0.25W
- 4 1.75H , 2H
- 5 220Ω , 1.2H
- 6 10^5rad/s , 500Ω

二、 计算题

- 1 $P_{2A} = 4\text{W}$, $P_{2V} = 20\text{W}$
- 2 (1) $U_{OC} = 8\text{V}$, $R_i = 4\Omega$
(2) $R = 36\Omega$
- 3 (1) $H(j\omega) = \frac{1}{3 + j(\frac{\omega}{\omega_0} - \frac{\omega_0}{\omega})}$, 幅频、相频特性曲线略
(2) $\omega_{C1} = 0.3\omega_0$, $\omega_{C2} = 3.3\omega_0$
- 4 $u_c(t) = (12 - 6e^{-50t})\text{V}$, $t \geq 0$
零输入响应分量: $6e^{-50t}\text{V}$, 零状态响应分量: $(12 - 12e^{-50t})\text{V}$
- 5 (1) $u_2(t) = 2(e^{-1.5t} - e^{-3t})\varepsilon(t)\text{V}$
(2) $u_2(t) = 0.21\cos(3t - 108.4^\circ)\text{V}$