

Substituting (8) in (5) and then solving for I leads to:

$$\begin{aligned} R_1 I + \frac{jR_2 \omega L}{R_2 + j\omega L} I &= \tilde{V}_s \\ I \left(R_1 + \frac{jR_2 \omega L}{R_2 + j\omega L} \right) &= \tilde{V}_s \\ I \left(\frac{R_1 R_2 + jR_1 \omega L + jR_2 \omega L}{R_2 + j\omega L} \right) &= \tilde{V}_s \\ I &= \left(\frac{R_2 + j\omega L}{R_1 R_2 + j\omega L(R_1 + R_2)} \right) \tilde{V}_s. \end{aligned} \quad (17)$$

Combining (6) and (7) to solve for i_L in terms of I gives

$$i_L = \frac{R_2}{R_2 + j\omega L} I. \quad (18)$$

Combining (9) and (10) leads to

$$\begin{aligned} i_L &= \left(\frac{R_2}{R_2 + j\omega L} \right) \left(\frac{R_2 + j\omega L}{R_1 R_2 + j\omega L(R_1 + R_2)} \right) \tilde{V}_s \\ &= \frac{R_2}{R_1 R_2 + j\omega L(R_1 + R_2)} \tilde{V}_s. \end{aligned}$$

Using (1) for $\tilde{V}_s$ and replacing R_1 , R_2 , L and ω with their numerical values, we have

$$\begin{aligned} i_L &= \frac{30}{20 \times 30 + j4 \times 10^4 \times 0.4 \times 10^{-3}(20 + 30)} 25e^{-j45^\circ} \\ &= \frac{30 \times 25}{600 + j800} e^{-j45^\circ} \\ &= \frac{7.5}{6 + j8} e^{-j45^\circ} = \frac{7.5e^{-j45^\circ}}{10e^{j53.1^\circ}} = 0.75e^{-j98.1^\circ} \quad (\text{A}). \end{aligned}$$

Finally,

$$\begin{aligned} i_L(t) &= \Re\{i_L e^{j\omega t}\} \\ &= 0.75 \cos(4 \times 10^4 t - 98.1^\circ) \quad (\text{A}). \end{aligned}$$

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JE Gale



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