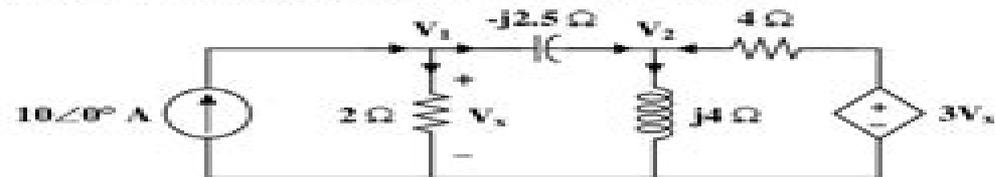


CHAPTER 10

P.P.10.1 $10 \sin(2t) \longrightarrow 10 \angle 0^\circ, \quad \omega = 2$
 $2 \text{ H} \longrightarrow j\omega L = j4$
 $0.2 \text{ F} \longrightarrow \frac{1}{j\omega C} = -j2.5$

Hence, the circuit in the frequency domain is as shown below.



At node 1, $10 = \frac{V_1}{2} + \frac{V_1 - V_2}{-j2.5}$
 $100 = (5 + j4)V_1 - j4V_2$ (1)

At node 2, $\frac{V_2}{j4} = \frac{V_1 - V_2}{-j2.5} + \frac{3V_x - V_2}{4}$ where $V_x = V_1$
 $-j2.5V_2 = j4(V_1 - V_2) + 2.5(3V_1 - V_2)$
 $0 = -(7.5 + j4)V_1 + (2.5 + j1.5)V_2$ (2)

Put (1) and (2) in matrix form.

$$\begin{bmatrix} 5 + j4 & -j4 \\ -(7.5 + j4) & 2.5 + j1.5 \end{bmatrix} \begin{bmatrix} V_1 \\ V_2 \end{bmatrix} = \begin{bmatrix} 100 \\ 0 \end{bmatrix}$$

where $\Delta = (5 + j4)(2.5 + j1.5) - (-j4)(-7.5 + j4) = 22.5 - j12.5 = 25.74 \angle -29.05^\circ$

$$\begin{bmatrix} V_1 \\ V_2 \end{bmatrix} = \frac{\begin{bmatrix} 2.5 + j1.5 & j4 \\ 7.5 + j4 & 5 + j4 \end{bmatrix}}{22.5 - j12.5} \begin{bmatrix} 100 \\ 0 \end{bmatrix}$$

$$V_1 = \frac{2.5 + j1.5}{22.5 - j12.5} (100) = \frac{2.915 \angle 30.96^\circ}{25.74 \angle -29.05^\circ} (100) = 11.32 \angle 60.01^\circ$$

$$V_2 = \frac{7.5 + j4}{22.5 - j12.5} (100) = \frac{8.5 \angle 28.07^\circ}{25.74 \angle -29.05^\circ} (100) = 33.02 \angle 57.12^\circ$$



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