

Chapter 14, Problem 6(6).

Obtain the transfer function $H(\omega) = \mathbf{I}_o/\mathbf{I}_s$ of the circuits shown in Fig. 14.70.

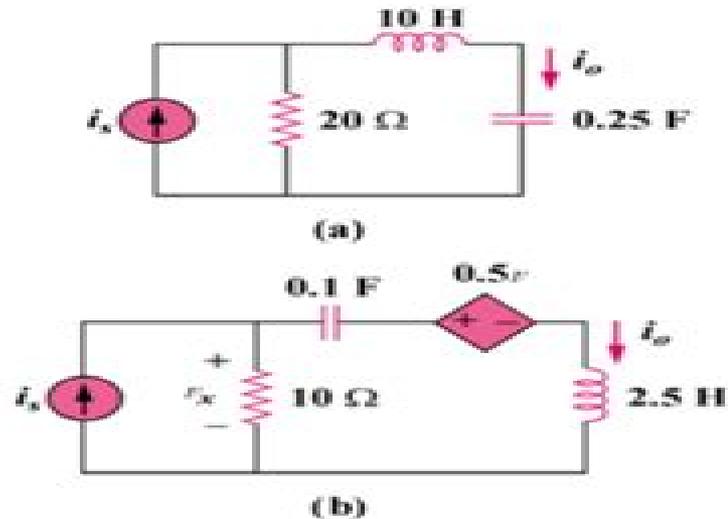


Figure 14.70

Chapter 14, Solution 6(6).

Using current division,

$$\mathbf{H}(\omega) = \frac{\mathbf{I}_o}{\mathbf{I}_s} = \frac{\mathbf{R}}{\mathbf{R} + j\omega\mathbf{L} + 1/j\omega\mathbf{C}}$$

$$\mathbf{H}(\omega) = \frac{j\omega\mathbf{R}\mathbf{C}}{1 + j\omega\mathbf{R}\mathbf{C} - \omega^2\mathbf{L}\mathbf{C}} = \frac{j\omega(20)(0.25)}{1 + j\omega(20)(0.25) - \omega^2(10)(0.25)}$$

$$\mathbf{H}(\omega) = \frac{j\omega\mathbf{5}}{1 + j\omega\mathbf{5} - 2.5\omega^2}$$

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