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CHAPTER 6

Exercises

E6.1 (a) The frequency of $\mathbf{v}_m(\mathbf{t}) = 2 \cos(2\pi \cdot 2000\mathbf{t})$ is 2000 Hz. For this frequency $\mathbf{H}(f) = 2\angle 60^\circ$. Thus, $\mathbf{V}_{out} = \mathbf{H}(f)\mathbf{V}_m = 2\angle 60^\circ \times 2\angle 0^\circ = 4\angle 60^\circ$ and we have $\mathbf{v}_{out}(\mathbf{t}) = 4 \cos(2\pi \cdot 2000\mathbf{t} + 60^\circ)$.

(b) The frequency of $\mathbf{v}_m(\mathbf{t}) = \cos(2\pi \cdot 3000\mathbf{t} - 20^\circ)$ is 3000 Hz. For this frequency $\mathbf{H}(f) = 0$. Thus, $\mathbf{V}_{out} = \mathbf{H}(f)\mathbf{V}_m = 0 \times 2\angle 0^\circ = 0$ and we have $\mathbf{v}_{out}(\mathbf{t}) = 0$.

E6.2 The input signal $\mathbf{v}(\mathbf{t}) = 2 \cos(2\pi \cdot 500\mathbf{t} + 20^\circ) + 3 \cos(2\pi \cdot 1500\mathbf{t})$ has two components with frequencies of 500 Hz and 1500 Hz. For the 500-Hz component we have:

$$\mathbf{V}_{out,1} = \mathbf{H}(500)\mathbf{V}_m = 3.5\angle 15^\circ \times 2\angle 20^\circ = 7\angle 35^\circ$$

$$\mathbf{v}_{out,1}(\mathbf{t}) = 7 \cos(2\pi \cdot 500\mathbf{t} + 35^\circ)$$

For the 1500-Hz component:

$$\mathbf{V}_{out,2} = \mathbf{H}(1500)\mathbf{V}_m = 2.5\angle 45^\circ \times 3\angle 0^\circ = 7.5\angle 45^\circ$$

$$\mathbf{v}_{out,2}(\mathbf{t}) = 7.5 \cos(2\pi \cdot 1500\mathbf{t} + 45^\circ)$$

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