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CHAPTER 6

Exercises

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

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

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

$$V_{out,1} = H(500)V_{in} = 3.5\angle 15^\circ \times 2\angle 20^\circ = 7\angle 35^\circ$$

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

For the 1500-Hz component:

$$V_{out,2} = H(1500)V_{in} = 2.5\angle 45^\circ \times 3\angle 0^\circ = 7.5\angle 45^\circ$$

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

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Rosina Ehmann



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