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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:

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

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

# Hambley 6th Solutions Manual

**Victor Maymeskul**



## **Hambley 6th Solutions Manual:**

## Unveiling the Power of Verbal Art: An Emotional Sojourn through **Hambley 6th Solutions Manual**

In a world inundated with screens and the cacophony of quick conversation, the profound power and emotional resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the regular onslaught of noise and distractions. Yet, nestled within the lyrical pages of **Hambley 6th Solutions Manual**, a captivating perform of literary splendor that pulses with organic thoughts, lies an remarkable trip waiting to be embarked upon. Penned by a virtuoso wordsmith, this enchanting opus courses readers on a psychological odyssey, gently exposing the latent potential and profound affect stuck within the complicated web of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is main subjects, dissect their fascinating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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