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Chapter 5

Converting Between Analog & Digital Signals

5.1 Problems

Problem 5.1 (Sampling audio waveforms) *A talking book generates a digital audio waveform that was generated by sampling the original audio waveform 2,000 times a s. What is the maximum allowed frequency for proper operation?*

(ans:

$$f_s = 2,000 \text{ Hz} \quad \rightarrow \quad f_{max} < \frac{f_s}{2} = 1,000 \text{ Hz}$$

)

Problem 5.2 (Cell phone audio waveforms) *The audio signals on your cell phone occupy the frequency range from 300Hz to 3,400Hz. What sampling frequency would you specify for digitizing the voice waveform?*

(ans:

$$f_{max} = 3,400 \text{ Hz} \quad \rightarrow \quad f_s > 2f_{max} = 6,800 \text{ Hz}$$

Many systems use $f_s = 8,000 \text{ Hz}$ as the standard.

)

Problem 5.3 (Cell phone HD Voice waveforms) *The HD Voice systems for cell phone systems occupy the frequency range from 50Hz to 7,000Hz and permit high-quality speech to be transmitted. What sampling frequency would you specify for digitizing the voice waveform?*

(ans:

$$f_{max} = 7,000 \text{ Hz} \quad \rightarrow \quad f_s > 2f_{max} = 14,000 \text{ Hz}$$

A reasonable value falls in the range $15,000 < f_s < 20,000 \text{ Hz}$.

)

Digital Information Age An Introduction To Electrical Engineering

A Gutmann



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