

## Chapter 2

# Signal and Linear System Theory

### 2.1 Problem Solutions

#### Problem 2.1

The two discretized spectra, write the signal in terms of cosines

$$\begin{aligned} x(t) &= 0.5 \cos(2\pi t + \pi/4) + 0.5 \cos(2\pi t + 3\pi/4) \\ &= 0.5 \cos(2\pi t + \pi/4) + 0.5 \cos(2\pi t + 2\pi/4 + \pi/4) \\ &= 0.5 \cos(2\pi t + \pi/4) + 0.5 \cos(2\pi t + \pi/4) \end{aligned}$$

The two discretized spectra, write the signal in terms of complex exponentials using Euler's Equation

$$\begin{aligned} x(t) &= 0.5 \exp(j2\pi t + \pi/4) + 0.5 \exp(-j2\pi t + \pi/4) \\ &\quad + 0.5 \exp(j2\pi t + 3\pi/4) + 0.5 \exp(-j2\pi t + 3\pi/4) \end{aligned}$$

The two sets of spectra are plotted in Figures 2.1 and 2.2.

#### Problem 2.2

The result is

$$\begin{aligned} x(t) &= 1.0 \cos(2\pi t) + 1.0 \cos(4\pi t) + 1.0 \cos(6\pi t) + 1.0 \cos(8\pi t) \\ &= \cos(2\pi t + \pi/2) + \cos(4\pi t + \pi/2) \\ &= -\sin(2\pi t) + \sin(4\pi t + \pi/2) \end{aligned}$$

# Principles Of Communication 6th Edition Solution Manual

**SA Adler**



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