

1. Consider the discrete-time system $y[n] + y[n-1] + 0.25y[n-2] = \sqrt{3}x[n-8]$. Find the zero input response, $y_o[n]$, if $y_o[-1] = 1$ and $y_o[1] = 1$. (show results for $0 \leq n \leq 10$)

Hint: See computer example C3.4, you can use 'stem' command to plot the response.

2. Find the unit impulse response $h[n]$ of the systems specified by the following equations:
 $y[n] + 2y[n-1] = x[n]$ (show results for $0 \leq n \leq 20$)

Hint: See computer example C3.5, you can use 'filter' command to find the response and 'stem' command to plot it.

3. Find zero-state response $y[n]$ of an LTID system whose unit impulse response is $h[n] = (-2)^n u[n-1]$ and the input is $x[n] = e^{-n} u[n+1]$ (define n to be from -5 to 10)

Hint: See computer example C3.7, you can use 'conv' command to find the response and 'stem' command to plot it.

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4. Using only the z-transforms table, determine the z-transform of each of the following signals:

a) $2^{-n} u[n]$

b) $\cos\left(\frac{\pi}{2}n\right) u[n]$

Hint: use the 'ztrans' command

5. Find the inverse z-transforms of the following:

a) $\frac{z(-3z+22)}{(z+1)(z-2)^2}$

b) $\frac{z(2.82z+11.24)}{(z-2)(z^2-3z+28)}$

Hint: use the 'iztrans' command

6. Given an LTID system transfer function $[z] = \frac{2z+2}{(z-2)(z-3)}$, define this transfer function using 'tf' command with sampling time of 0.1 and find the step and impulse responses using 'step' and 'impz' commands.

Linear Systems And Signals 2nd Edition Solutions Chegg

B.P. Lathi



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 - Chapter 4: Linear Systems And Signals 2nd Edition Solutions Chegg in Specific Contexts
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