

System Dynamics 3rd Edition Solutions Manual

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The solution is $x(t) = \frac{1}{2}e^{-2t} + 0.25 + 0.5e^{-t}$ $1 t^2 + 2 t^3$ 2 [r,p,k] = residue([4,3],[1,6,34,0]) The result is $r = [-0.0441 - 0.3735i, -0.0441 + 0.3735i, 0.0882]$, $p = [-3.0000 + 5.0000i, -3.0000 - 5.0000i, 0]$, and $k = []$.The solution is $x(t) = (\frac{1}{2}e^{-2t} + 0.3735i)e^{(3+5i)t} + (\frac{1}{2}e^{-2t} + 0.3735i)e^{(3-5i)t} + 0.0882$ The solution is $x(t) = 2e^{-3t} (\frac{1}{2}e^{i5t} \cos 5t + 0.3735 \sin 5t) + 0.0882$ (continued on the next page)

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The characteristic equation derived earlier becomes $2s^2 + 3s + 1 = 0$ $1 + 0.01 2 + 0.3 s + 1 = 0$ whose roots are $s = -1.26, -1.8$ and $s = -3.82$. The dominant time constant is $1/3.82 = 0.262$, and thus we would expect the steady-state response to be reached in about $4(0.262) = 1.04$ s. The scope plot confirms this. 16.

System Dynamics, Third Edition

Sample questions asked in the 3rd edition of System Dynamics: Consider the two-mass model shown in Figure P11.50. Use the following numerical values: $m_1 = m_2 = 1$, $k_1 = 1$, $k_2 = 4$, and $c_2 = 8$. a. Use MATLAB to obtain the root locus plot in terms of the parameter c_1 . b.

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1) You can substitute the form (5) into the differential equation and use the initial conditions to obtain equations for the Ci. coefficients. 2) You can use (1) and (2) to create a partial fraction expansion of (4) in terms of the complex factors. 3) You can perform an expansion in terms of the six roots, of the form A1.

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