

## System Dynamics 3rd Edition Solution Manual

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

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Full file at <https://testbanku.eu/Solution-Manual-for-System-Dynamics-3rd-Edition-by-Palm>. 1.25 (a) If  $C(t) = C(0) = 0.5$  when  $t = 500$  years, then  $0.5 = e^{500b}$ , which gives  $b = \ln(0.5)/500 = 1.2603 \times 10^{-4}$ . (b) Solve for  $t$  to obtain  $t = \ln[C(t) = C(0)] / b = \ln[C(t) = C(0)] / b = \ln(0.9) / b = 1.2603 \times 10^4$ . The answer is 836 years.

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$x(t) = 13e^{7t} \sin 3t + 4e^{7t} \cos 3t$  From the initial value theorem  $x(0^+) = \lim_{s \rightarrow \infty} s [1.5s^4 + 67s^2 + 14s + 58] = 4$  which is the same as  $x(0^-)$ . However, the initial value theorem is invalid for computing  $x_{(0^+)}$  and gives an unde ned result because the order of the numerator of  $sX(s)$  is greater than the denominator.

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The solution for the forced response is  $x_c(t) = -0.0034te^{-3t} \sin 5t + 0.0066te^{-3t} \cos 5t - 0.0026e^{-3t} \sin 5t + 2.308 \times 10^{-4}e^{-3t} \cos 5t + 0.00796 \sin 0.866t - 2.308 \times 10^{-4} \cos 0.866t$  The initial condition  $x(0) = 0$  is not exactly satisfied by this expression because of the limited number of digits used to display it.

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