

System Dynamics 3rd Edition Solution Manual

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The solution is $x(t) = -0.25e^{-2t} + 0.25 + 0.5t - e^{-1}t^2 + 2.1t^3$ 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 $x(t) = (-0.0441 - 0.3735i)e^{(-3+5j)t} + (-0.0441 + 0.3735i)e^{(-3-5j)t} + 0.0882$ 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 $b = \ln(0.5)/500 = 1:2603 104$. (b) Solve for t to obtain $t = \ln[C(t) = C(0)] = \ln(0.9) = -0.10536$ and $b = 1:2603 104$. The answer is 836 years.

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$x(t) = 13e^{7t} \sin 3t + 4e^{7t} \cos 3t$ From the initial value theorem $x(0^+) = \lim_{s \rightarrow 0^+} s[4s^2 + 67s^2 + 14s + 58] = 4$ 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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