

System Dynamics William Palm Solution Manual

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1.26 Only the semilog plot of the data gives something close to a straight line, so the data is best described by an exponential functiony = b(10)^{mx} where y is the temperature in degrees C andx is the time in seconds.

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2.3 a) $z \times 3 \text{ dx } 25 \text{ 5x}^2 \text{ 2 t } 0 \text{ dt} = t \times 3 \text{ dx } 25 \text{ 5x}^2 \text{ p } 5 \text{ 25} \cdot \arctanh \text{ p } 5 \text{ 5!} \arctanh \text{ 3 p } 5 \text{ 5!} \# = t \text{ Let } C = \arctanh \text{ 3 p } 5 \text{ 5!}$ Solve forx to obtain $x = p \text{ Stanh}(5 \text{ p } 5 \text{ t} + C) \text{ b) } 2 \times 10 \text{ dx } 36 + 4x^2 \text{ z } t \text{ 0 dt} = t$

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The solution is $x(t) = 70.25e^{2t} + 0.25 + 0.5t^2 \text{ e) } 1 \text{ t}^2 + 2 \text{ 1 t}^3 \text{ 2 [r,p,k] = residue}(\{4,3\},\{1,6,34,0\})$ 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 $x(t) = (70.0441 \text{ ? } 0.3735j)e^{(73+5j)t} + (70.0441 + 0.3735j)e^{(7375j)t} + 0.0882$ The solution is $x(t) = 2e^{73t} (70.0441 \cos 5t + 0.3735 \sin 5t) + 0.0882$ (continued on the next page)

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The characteristic equation derived earlier becomes $2?^2 + 3 \text{ ?} + 1=0.01 \text{ 2}+0.3 \text{ +}1=0$ whose roots are $=?26.18$ and $=?3.82$. The dominant time constant is $1/3.82=0.262$, and thus we would expect the steady-state response to be reached in about $4(0.262)=1.04 \text{ s}$. The scope plot confirms this. 16.

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