

### System Dynamics Third Edition Solutions

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2.3 a)  $Z \times 3 \ dx \ 25 \ 5x^2 \ Z \ 1 \ 0 \ dt = 1 \ Z \times 3 \ dx \ 25 \ 5x^2 \ p \ 5 \ 25 \ \arctan \ p \ 5x \ 5! \ arctan \ 3 \ p \ 5 \ 5! \ = t$  Let  $C = \arctan \ 3 \ p \ 5 \ 5!$  Solve for  $x = p \ 5 \ tanh(5 \ p \ 5t + C)$  b)  $Z \times 10 \ dx \ 36 + 4x^2 \ Z \ 1 \ 0 \ dt = t$

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The solution is  $x(t) = ?0.25e^{?2t} + 0.25 + 0.5t \ e) \ 1 \ 12 + 2 \ 1 \ 13 \ 2 \ [r,p,k] = \text{residue}([4,3],[1,6,34,0])$  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  $x(t) = (?0.0441 \ ? \ 0.3735i)e^{(?3+5)t} + (?0.0441 + 0.3735i)e^{(?375)t} + 0.0882$  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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System Dynamics, Third Edition William J. Palm III Using Simscape™ Versus Simulink for Modeling the Dynamics of Ladder Networks PowerPoint slides to accompany 1. These slides are intended to be used with the author's text, System Dynamics, 3/e, published by McGraw-Hill© 2014.

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*Obtain the transfer function X(s)/F(s) from the block ...*

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Main revisions made in this edition are to shift the state space approach to modeling dynamic systems to Chapter 5, right next to the transfer function approach to modeling dynamic systems, and to add numerous examples for modeling and response analyses of dynamic systems.

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