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Problem 2.41 continued: Because the initial values can be arbitrary, the general form of the solution is $y(t) = 1/2 et+ A. 1 \sin t + A2 \cos t$ (1) This form can be used to obtain a solution for cases where $y(t)$ or $_y(t)$ are speci ed at points other than $t = 0$. For example, suppose we are given that $y(0) = 5=2$ and $y'(0) = 3$.

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The solution is $x(t) = - 0.25e - 2t + 0.25 + 0.5t - e^{1/2} + 2 + 1/3 2 [r,p,k] = \text{residue}([4,3],[1,6,34,0])$ The result is $r = [-0.0441 - 0.3735j, -0.0441 + 0.3735j, 0.0882]$, $p = [-3.0000 + 5.0000j, -3.0000 - 5.0000j, 0]$, and $k = []$.The solution is $x(t) = (- 0.0441 - 0.3735j)e^{(- 3+5j)t} + (- 0.0441 + 0.3735j)e^{(- 3 - 5j)t} + 0.0882$ 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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"System dynamics deals with mathematical modeling and analysis of devices and processes for the purpose of understanding their time-dependent behavior. While other subjects, such as Newtonian dynamics and electrical circuit theory, also deal with time-dependent behavior, system dynamics emphasizes methods for handling applications containing multiple types of components and processes such as electromechanical devices, electrohydraulic devices, and fluid-thermal processes. Because the goal of system dynamics is to understand the time-dependent behavior of a system of interconnected devices and processes as a whole, the modeling and analysis methods used in system dynamics must be properly selected to reveal how the connections between the system elements affect its overall behavior. Because systems of interconnected elements often require a control system towork properly, control system design is a major application area in system dynamics"--

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For junior-level courses in System Dynamics, offered in Mechanical Engineering and Aerospace Engineering departments. This text presents students with the basic theory and practice of system dynamics. It introduces the modeling of dynamic systems and response analysis of these systems, with an introduction to the analysis and design of control systems.