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Variables :  $w_1$  ,  $w_2$  ,  $T_1$  ,  $T_2$  ,  $T_3$ .  $NE = 1$   $NV = 5$ .  
Thus,  $NF = 5 - 1 = 4$ . Because  $w_1$  ,  $w_2$  ,  $T_1$  and  $T_2$   
are determined by upstream units, we assume they

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Solved: 1. Consider the second order model:  $4 \frac{d^2 y}{dt^2} + 8 \frac{dy}{dt} + 4y = 4u(t)$ , with step. Using the solution for a second order lag subject to a step response from the

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