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Assume a solution

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of the form $u(t) = e^{st}$. Substituting this solution into Eq. (c) yields $(-s^2 + 2s + 2)u = 20$

$$(-s^2 + 2s + 2)u = 20 \quad \text{or } s^2 - 2s - 2 = -20/u$$

Because e^{st} is never zero, the quantity within parentheses must be zero: $s^2 - 2s - 2 = 0$

$$s^2 - 2s - 2 = 0 \quad \text{or } s = \frac{2 \pm \sqrt{4 + 8}}{2}$$

$$s = \frac{2 \pm \sqrt{12}}{2} = 1 \pm \sqrt{3}$$

$$s_1 = 1 + \sqrt{3} \quad (\text{double})$$

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root) The general solution has the following form: $u(t) = A e^{-\zeta \omega_n t} + B e^{-\zeta \omega_n t} \cos(\omega_d t) + C e^{-\zeta \omega_n t} \sin(\omega_d t)$ (d)

CHAPTER 2

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The general
solution is $u(t) = A e^{-\zeta \omega_n t} \cos(\omega_d t - \phi) + B e^{-\zeta \omega_n t} \sin(\omega_d t - \phi) + \frac{g}{\omega_n^2}$
(a) $\omega_n = \sqrt{\frac{k}{m}} = 12 \text{ rad/s}$ (c) The
initial conditions are
 $u(0) = 0 = \frac{h}{m} + A \cos(\phi) + B \sin(\phi)$
 $\dot{u}(0) = 2g = -\zeta \omega_n A \sin(\phi) + \omega_d B \cos(\phi) - \zeta \omega_n B \cos(\phi) - \omega_d A \sin(\phi)$
(d) The initial
velocity in Eq.

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