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Assume a solution of the form $u(t) = e^{st}$. Substituting this solution into Eq. (c) yields $(-s^2 m + ks) e^{st} = 0$. Because e^{st} is never zero, the quantity within parentheses must be zero: $-s^2 m + ks = 0$ or $s^2 = \frac{ks}{m}$. $s = \pm \sqrt{\frac{ks}{m}}$ (double root) The

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general solution has the following form: $u(t) = A e^{-\zeta \omega_n t} \left[\cos(\omega_d t) + \frac{\zeta \omega_n}{\omega_d} \sin(\omega_d t) \right]$ (d)

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