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Solution: 4. Compute the maximum acceleration. 1. Determine deformation and velocity at impact. $u(0) = mg = 10 = 0.2$ in. $u\dot{=} \omega^2 u = (43.93)^2 (3.8) 7334$ in./sec² = 18.98g $u\dot{=} (0) = - 50^2 gh = - 2(386)(36) = -166.7$ in./sec². Determine the natural frequency. $\omega_n = kg = w (50)^2 / 386 = 10.439$ rad/sec 3. Compute the maximum deformation. $u(t) = u(0) \cos \omega_n t +$

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(b)] are: Hence the general solution is $s_{1,2} = \omega_n \Phi \pm \zeta \omega_n t$ (l) $u(t) = A_1 e^{s_1 t} + A_2 e^{s_2 t}$ The general solution is: $s_1 = -\zeta \omega_n \pm i \omega_n \sqrt{1 - \zeta^2}$ (c) becomes $u(t) = A_1 e^{-\zeta \omega_n t} \cos \omega_n \sqrt{1 - \zeta^2} t + A_2 e^{-\zeta \omega_n t} \sin \omega_n \sqrt{1 - \zeta^2} t$ (d) which after substituting Eq.

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The general solution is $u(t) = A \cos \omega_n t + B \sin \omega_n t$ () $\cos \sin = + \omega_n^2 g$ (b) $\omega_n k m m = 12 + (c)$ The initial conditions are $u(0) = h$ $\dot{u}(0) = 2g$ (d) The initial velocity in Eq. (d) was determined by conservation of momentum during impact: $m_1 u_1 + m_2 u_2 = (m_1 + m_2) v$ where $u_1 = 2g$ Impose initial conditions to determine A and B: $u(0) = h = A \cos(0) + B \sin(0) = A$ $\dot{u}(0) = 2g = -A \omega_n \sin(0) + B \omega_n \cos(0) = B \omega_n$

CHAPTER 2

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Problem 1.17 A heavy rigid platform of weight w is supported by four columns, hinged at the top and the bottom, and braced laterally in each side panel by two diagonal steel wires as shown in Fig ...

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