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### **Dynamics of Structures - Elements of structural dynamics**

Dynamics of Structures: Theory and Applications to Earthquake Engineering, A. Chopra (Prentice Hall, 4th Edition) - Required Optional References: Dynamics of Structures, J. L. Humar (Balkema,

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Solution:  $k \frac{S}{h} \frac{u}{m_2 g}$  With  $u$  measured from the static equilibrium position of  $m_1$  &  $k$ , the equation of motion after impact is where  $u^2 = 2gh$   $(m_1 + m_2) \ddot{u} + ku = m_2 g$  (a) The general solution is Impose initial conditions to determine  $A$  and  $B$ :  $m_2 g u(t) = A \cos \omega t + B \sin \omega t + m_2 g$  (b)

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