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solution of the form  $u(t) = st$ . Substituting  
 this solution into Eq. (c)  
 yields  $(\omega^2 - \omega_n^2)st = 0$   
 $= 20\omega st$  Because  $st$   
 is never zero, the  
 quantity within  
 parentheses must be  
 zero:  $\omega^2 = \omega_n^2$   
 $\omega = \pm \omega_n$  or  $\omega = \pm 2$   
 $\omega$  (double  
 root) The general  
 solution has the  
 following form:  $u(t) = A e^{i\omega t} + B e^{-i\omega t}$   
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22 We have and for so that we can write

The contribution of one

impulse to the response of the system is given by :

43 Time domain response using Duhamel's integral  $f(t)$  is decomposed into a series of

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equation of motion after impact is where  $u^2 = 2gh (m_1 + m_2)$   
 $u^2 + ku = m_2 g$  (a)  
 The general solution is  
 Impose initial conditions to determine A and B:  
 $g u(t)^2 = A \cos \omega t + B \sin \omega t + m g$  (b)

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Assume a solution of

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