

DYNAMICS OF STRUCTURES SOLUTIONS MANUAL WITH TRANSPARENCY
MASTERSWHAT ARE YOU HUNGRY FOR THE CHOPRA SOLUTION TO PERMANENT
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Solution: $k S h 2 u m 2 g$ With u measured from the static equilibrium position of $m 1$ & and k , the equation of motion after impact is where $u 2 = 2gh (m 1 + m 2) u \&\& + ku = m 2 g$ (a) The general solution is Impose initial conditions to determine A and B : $m g u(t) 2= A \cos ?t + B \sin ?t + m g$ (b)

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Introduction to Dynamics of Structures 14 Washington University in St. Louis. then the structure is in free vibration. Then a record of the acceleration of the two floors of the structure will appear. The next button on the menu, "Free Vibration Test" (See figure 14), will perform this test.