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1 Introduction Vibration refers to mechanical oscillations about an equilibrium point. The oscillations may be peri-odic such as the motion of a pendulum or random such as the movement of a tire on a gravel road.

Chopra, Dynamics of Structures, 5th Edition | Pearson

Solution: $k S h^2 u m^2 g$ With u measured from the static equilibrium position of m_1 & m_2 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 $u(t) = A \cos \omega t + B \sin \omega t + m g$ (b)

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- To discuss the dynamics of a single-degree-of freedom spring-mass system.
- To derive

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the finite element equations for the time- ... equation whose solution for the displacement consists of a homogeneous solution and a particular solution.

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