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Structural Analysis IV Chapter 5 – Structural Dynamics 5 Dr. C. Caprani 5.1.2 An Initial Numerical Example If we consider a spring-mass system as shown in Figure 1.3 with the properties $m = 10 \text{ kg}$ and $k = 100 \text{ N/m}$ and if give the mass a deflection of 20 mm and then release it (i.e. set it in motion) we would observe the system oscillating as shown in Figure 1.3.

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In the presence of damping but without external forces, the solution to the linear vibration problem takes the form (compare with free vibration in Chapter 2) where ω_d , the natural frequency of the damped point-mass spring system, is given by: $\omega_d = \omega_n \sqrt{1 - \zeta^2}$

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The equation of motion is most important because structural response is computed as the solution to the equation. The equation of motion of a SDOF system can be given using d'Alembert's principle while considering the dynamic equilibrium (see Fig.2.1.1). $m \ddot{x}(t) + c\dot{x}(t) + kx(t) + p(t) = 0$