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**15 4 undamped harmonic forced vibrations engineering** Oct 17 2022 web jan 15 2022 figure 15 4 1 a mass spring system with an external force  $f$  applying a harmonic excitation the equation of motion of the system above will be  $m \ddot{x} + kx = f \sin \omega t$  where  $f$  is a force of the form  $f \sin \omega t$  this equation of motion for the system can be re written in standard form  $\ddot{x} + k/m x = f/m \sin \omega t$

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