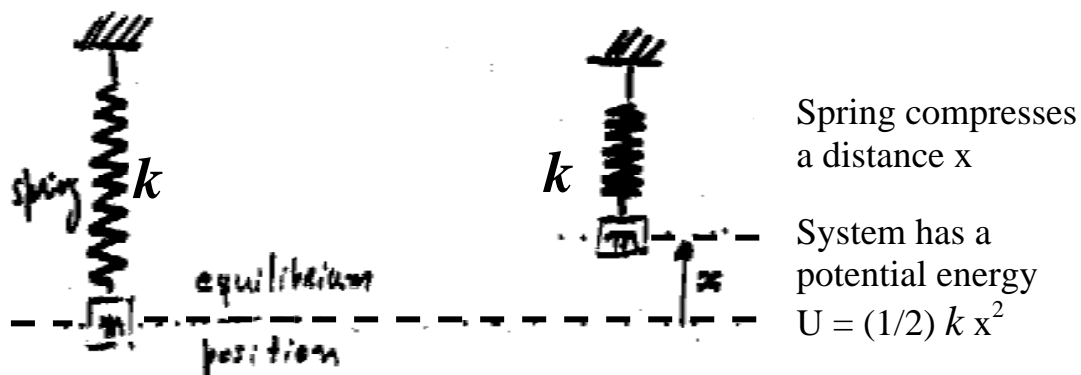
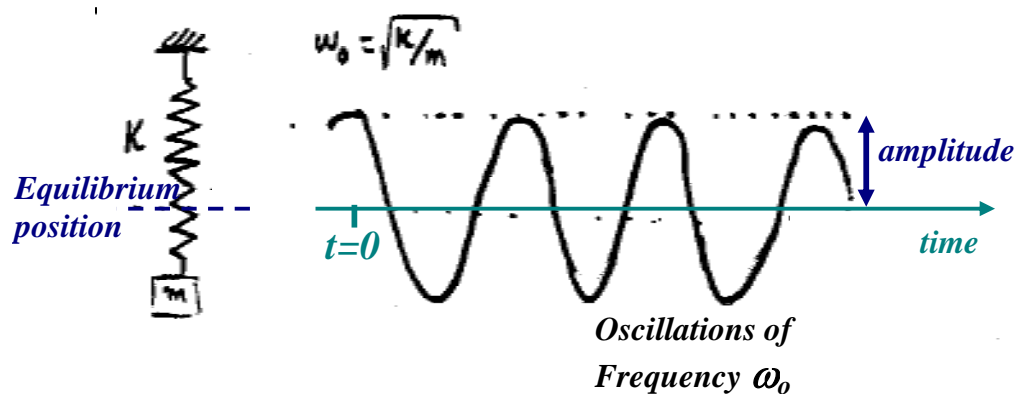


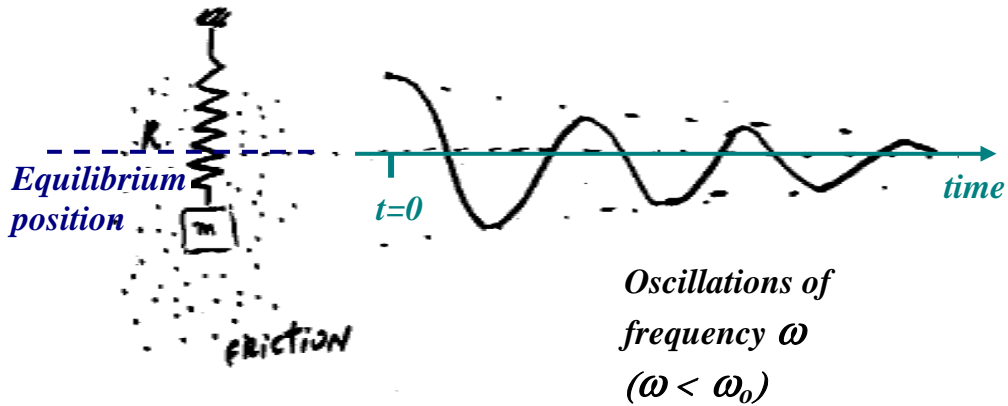
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HARMONIC OSCILLATIONS

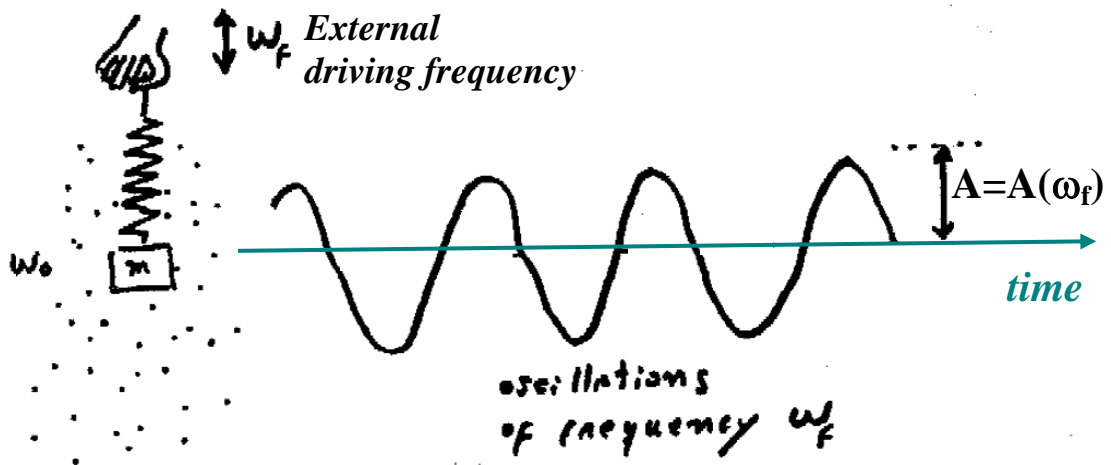
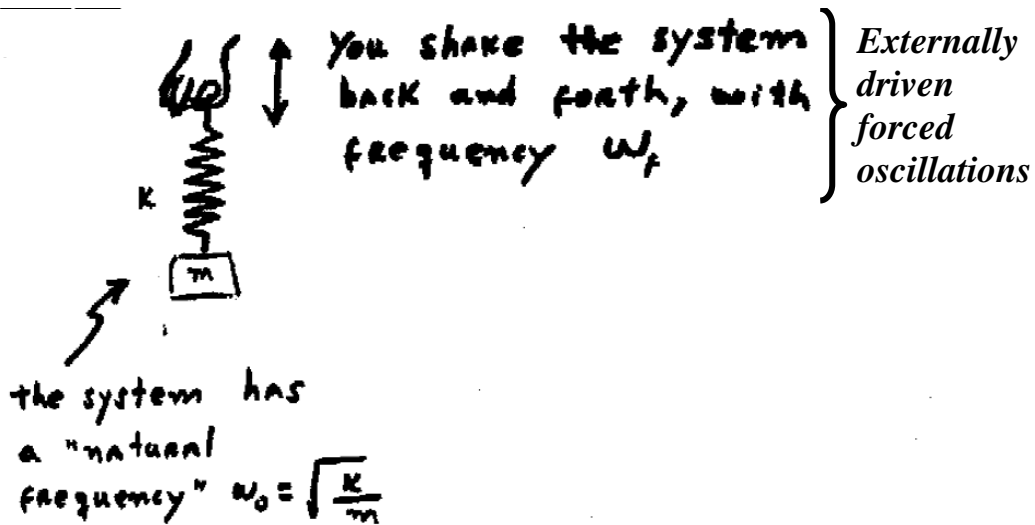
Outline of the type of motion to be studied in this chapter

**Case-1: Simple harmonic motion**

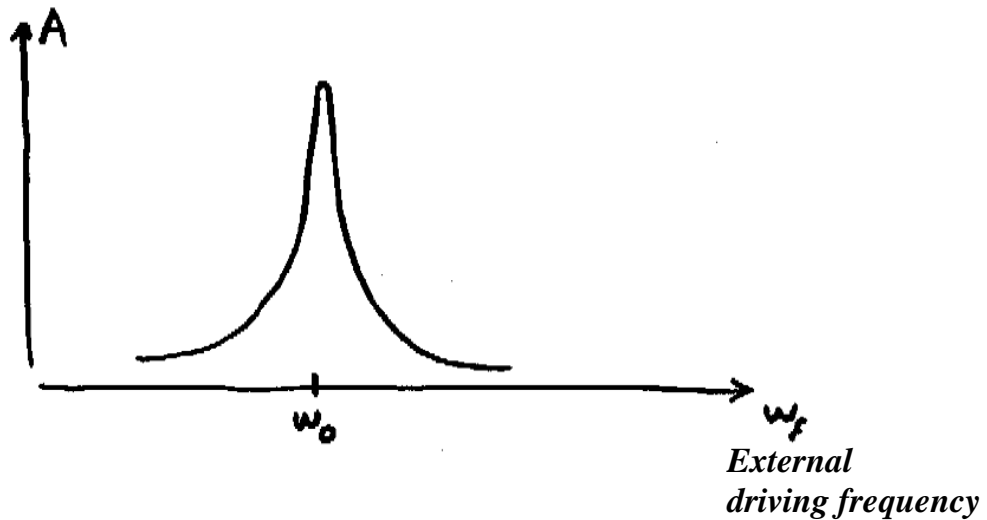
Case-2: Damped simple harmonic motion



Case-3: Forced oscillations



A peculiar characteristic of force oscillations motion is the phenomenon of resonance, as shown in the figure below.



Amplitude of oscillation
is maximum when the
frequency of the external
oscillator (ω_f) is approximately equal
to ω_0 .

THIS IS CALLED RESONANCE