

WELCOME To Adda 247

"If there is no struggle, there is no progress."— Frederick Douglass



Index :-

TOM – Theory of Machine

- 1) Vibration
- 2) Force damped vibration
- 3) isolation
- 4) Whirling of shaft

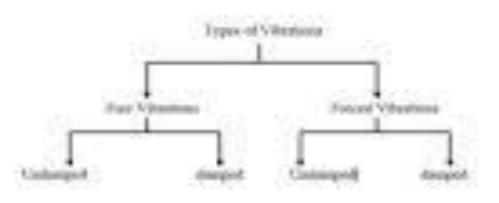
1-2 marks from these Topic

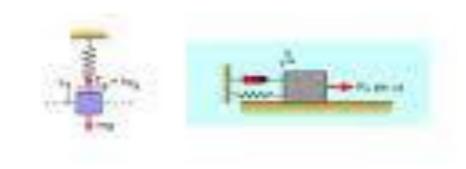


Vibrations

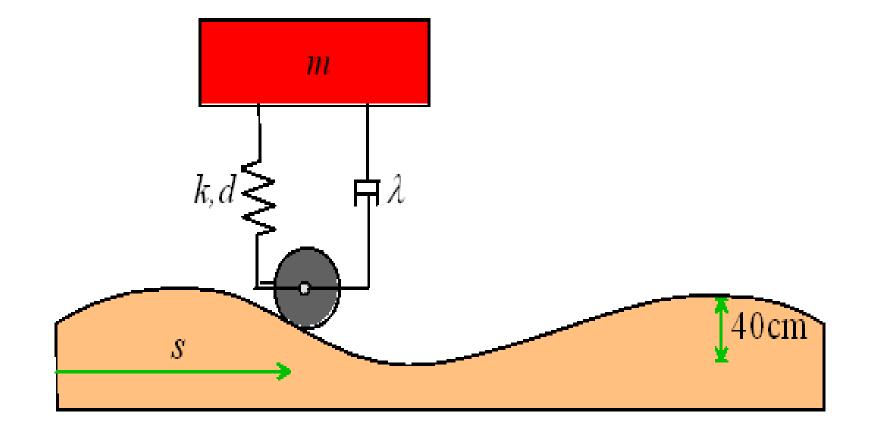
- Free Vibrations : Vibrations that occur in the absence of friction and external forces after initial release of body.
 - Eg: Simple Pendulum
- Forced Vibrations : When repeated force continuously acts on the system the vibrations are said to be forced vibrations.

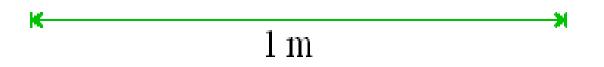
Eg: Pendulum in a Clock

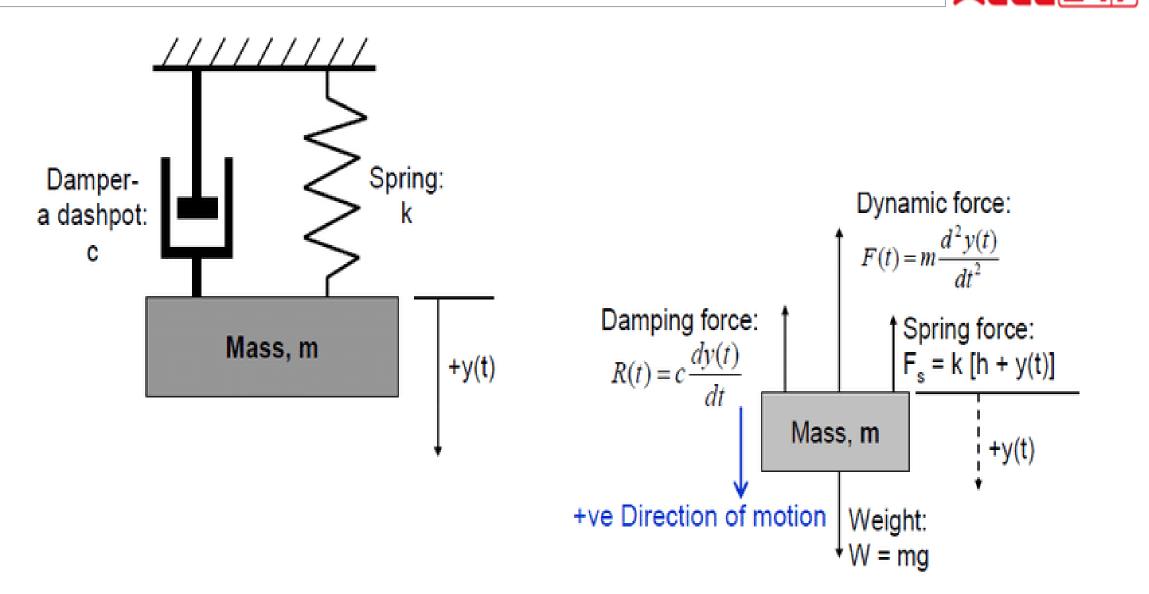


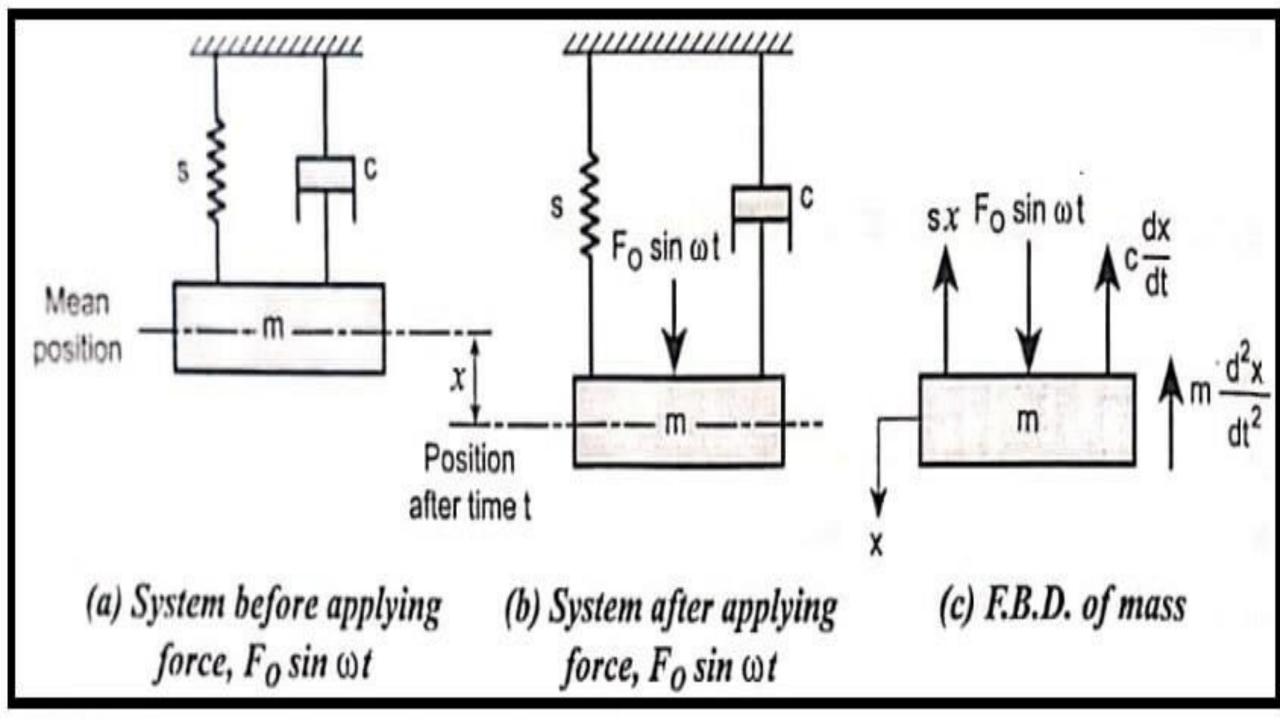








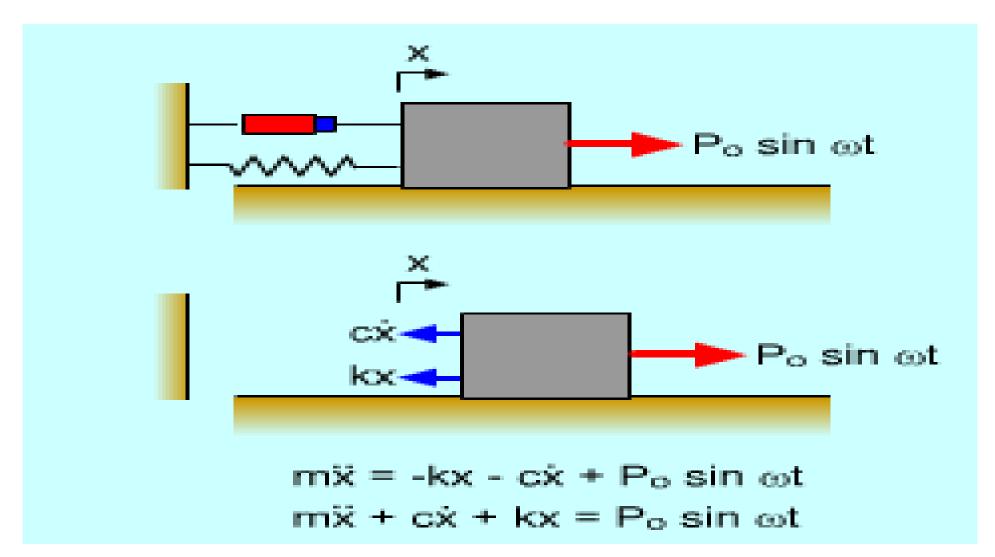






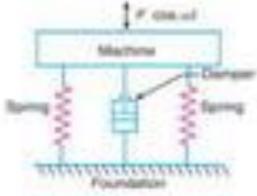






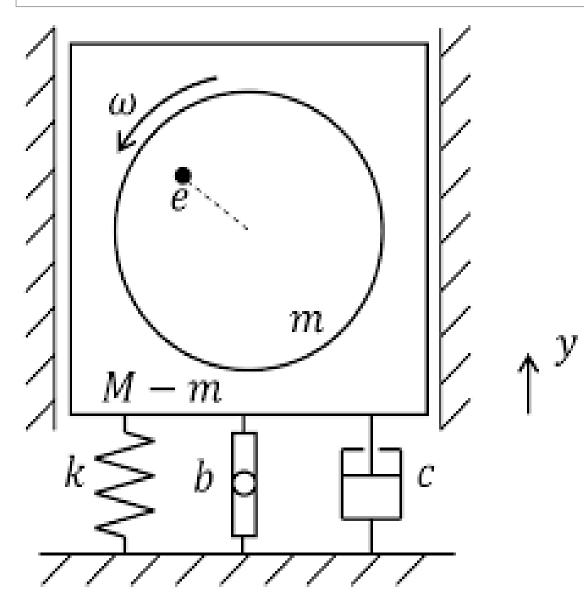
Vibration Isolation

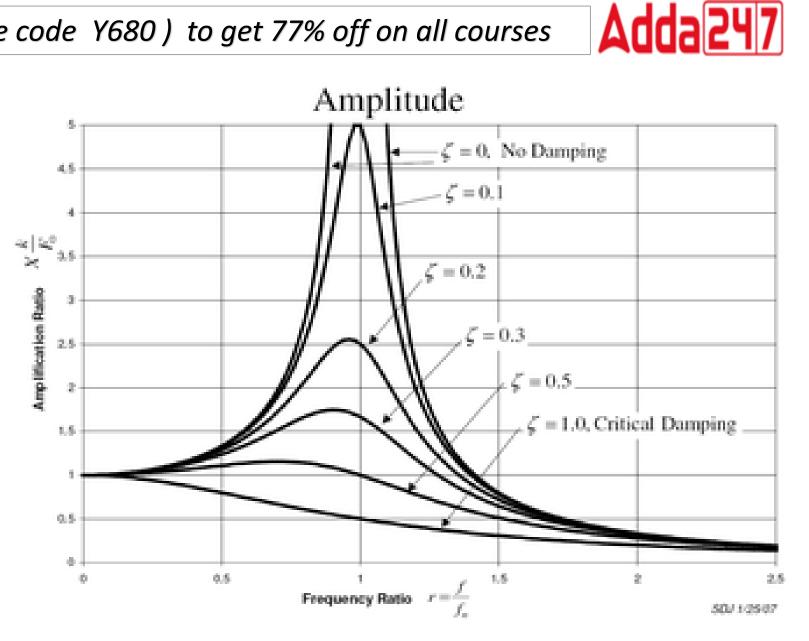
- Vibrations produced in a machine is transmitted to the foundation upon which it is mounted. These vibrations produce undesirable effects and should be avoided.
- These Vibrations should be isolated using Springs and Dampers.
- The concept of Transmissibility comes into role to determine the amount of vibrations that are transmitted to the foundation and Isolate the same.



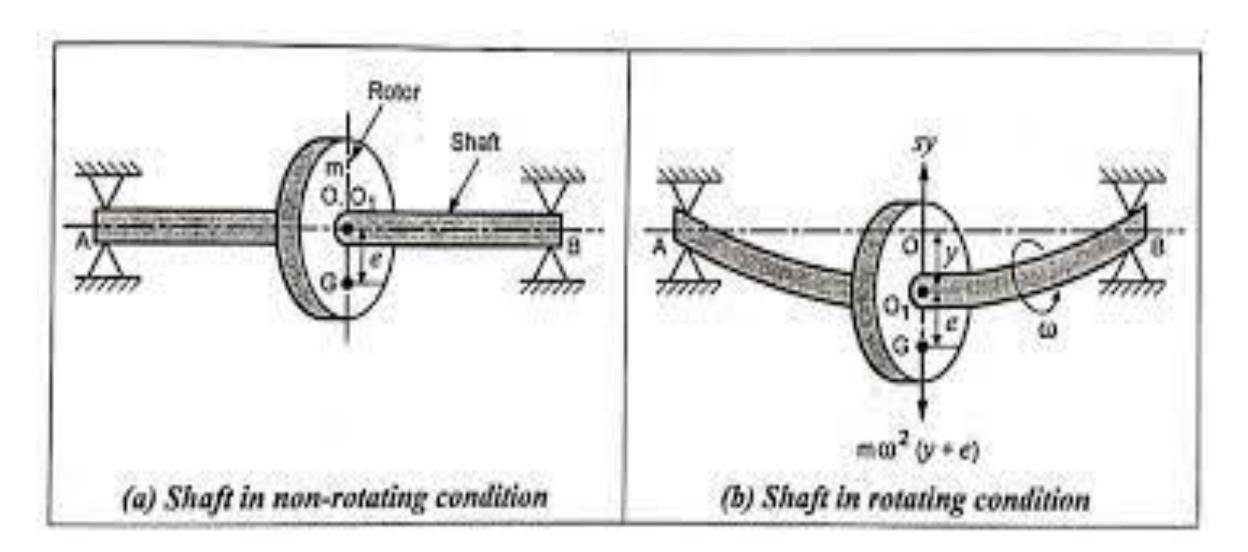






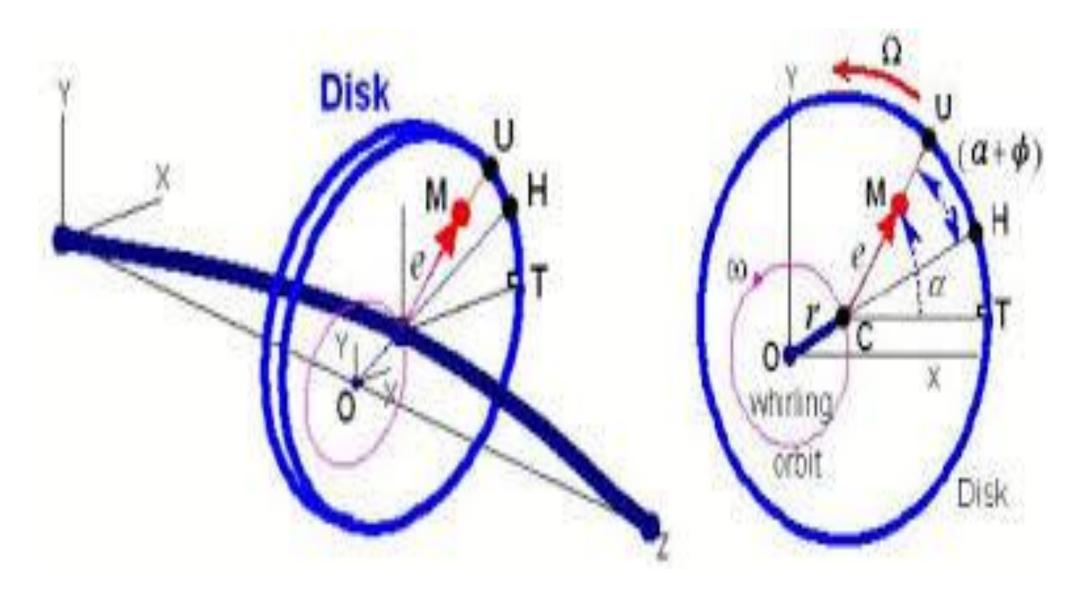






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