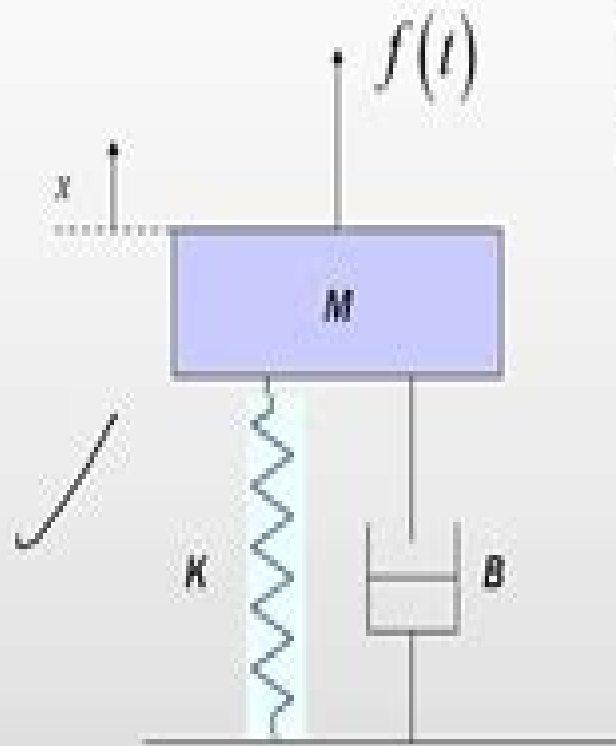


Example 1

Example of a dynamic system: A mass-spring-damper system



The Mathematical model of the system is described by:

$$\ddot{x} = \frac{1}{M} (-\underline{B}\dot{x} - \underline{K}x + f(t))$$

Lets $M=2\text{kg}$; $\underline{B} = 2 \text{ Ns/m}$; $\underline{K}=2 \text{ N/m}$

$$\ddot{x} = \frac{1}{2} (-2\dot{x} - 2x + \underline{f(t)})$$

Modeling And Simulation Of Dynamic Systems

E Durkheim



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