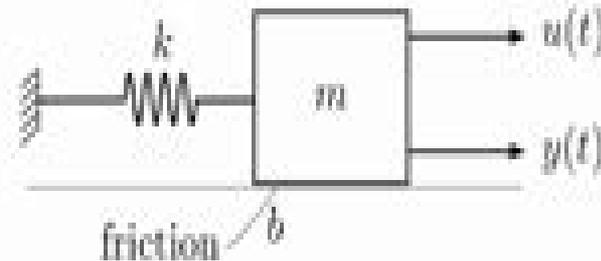


## Space state model



$$x_1 = y(t)$$

$$\dot{x}_1 = x_2$$

$$x_2 = \dot{x}_1$$

$$\dot{x}_2 = ?$$

State variables:

$$x_1(t) = y(t), \quad x_2(t) = \frac{dy(t)}{dt} = \dot{x}_1$$

Differential equation describing the dynamic behaviour of the system

$$m \frac{d^2 y(t)}{dt^2} + b \frac{dy(t)}{dt} + ky(t) = u(t)$$

In terms of state variables:

$$m \dot{x}_2 + b x_2 + k x_1 = u(t)$$

$$\dot{x}_2 = \frac{u(t)}{m} - \frac{b}{m} x_2 - \frac{k}{m} x_1$$

# State Space Theory Of Systems

**Yi-Tong Ma**



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