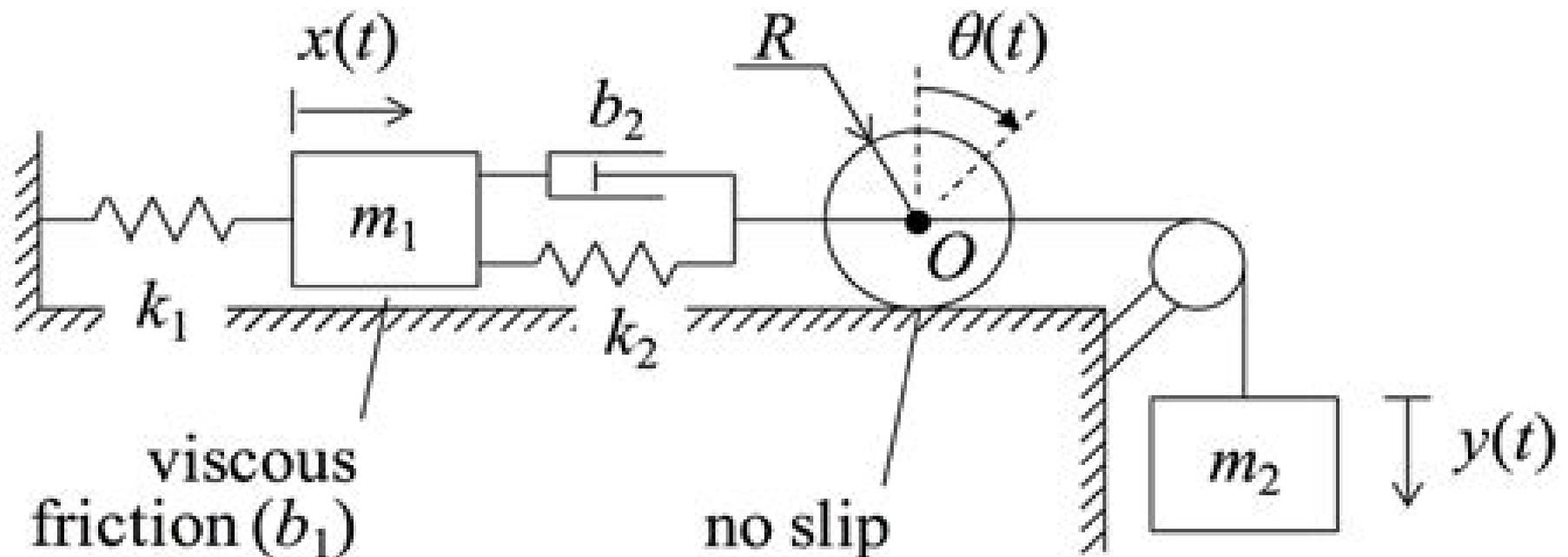


### Dynamics of Mechanical Systems: Three-Body System

Write the equations of motion (EOM) for the three-body system in Figure 1, where a thin disk of radius  $R$  and mass  $m$  is rotating about its center of mass  $O$  with an angle  $\theta(t)$ , without slip on the contact surface, with mass-moment of inertia  $I_O$  about  $O$ . Point  $O$  is connected through spring  $k_2$  and damper  $b_2$  to mass  $m_1$ , which has a horizontal displacement noted  $x(t)$ . Point  $O$  is also connected through an inextensible cable over a mass-less, frictionless pulley to mass  $m_2$ , whose vertical displacement is noted  $y(t)$ . Do include gravity when drawing the FBD of mass  $m_2$ .



**Figure 1. Three-Body System**

# Mechanical Engineering System Dynamics

**Hongru Du**



## **Mechanical Engineering System Dynamics:**

## Unveiling the Magic of Words: A Review of "**Mechanical Engineering System Dynamics**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Mechanical Engineering System Dynamics**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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