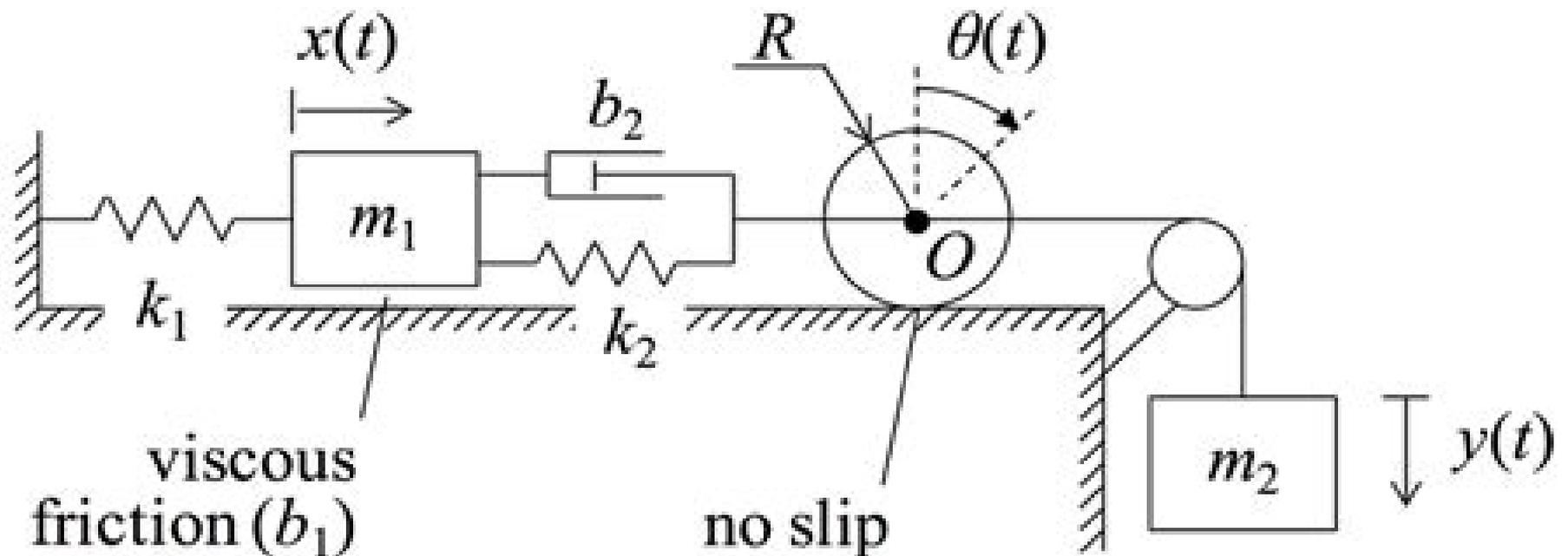


### Dynamics of Mechanical Systems: Three-Body System

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

**Ogata**

A decorative graphic element consisting of a horizontal light blue bar with a rounded right end. To the right of the bar is a semi-circular red gradient shape that overlaps the bar's end.

## **Mechanical Engineering System Dynamics:**

## Decoding **Mechanical Engineering System Dynamics**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mechanical Engineering System Dynamics**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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