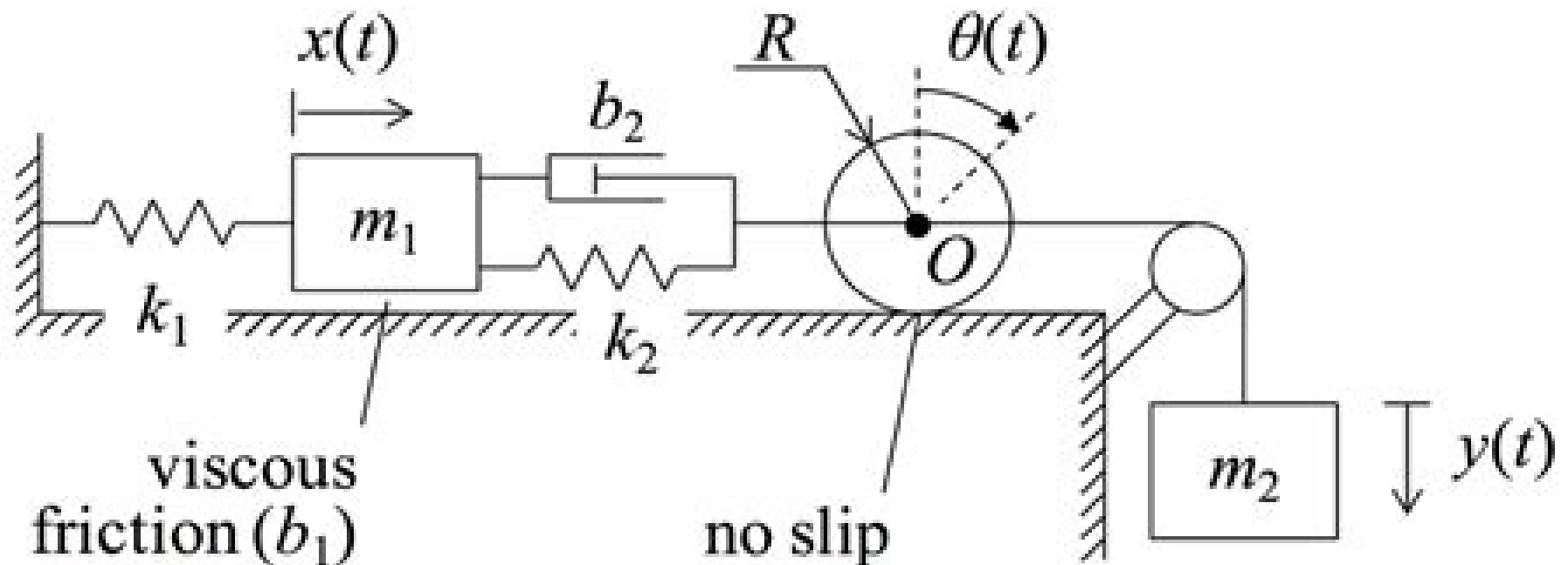


### Dynamics of Mechanical Systems: Three-Body System

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

**Brendan G. Carr**



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