

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 .

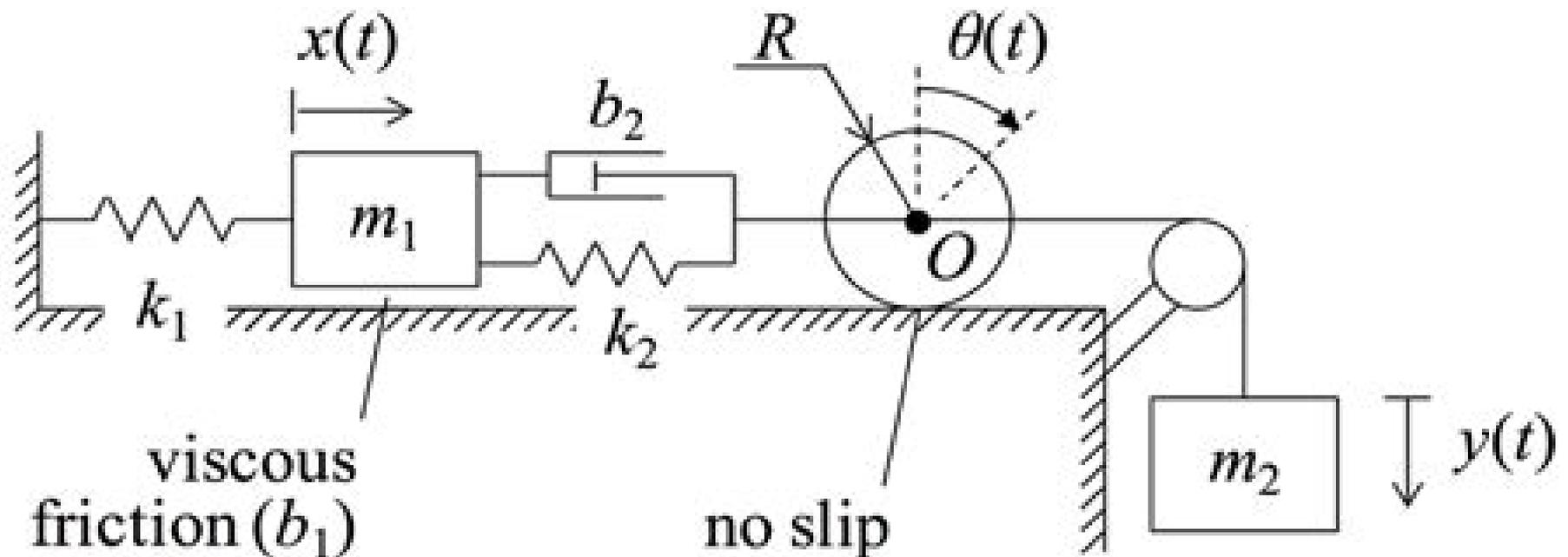


Figure 1. Three-Body System

Mechanical Engineering System Dynamics

Padhraic Smyth

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle on the right side of the bar.

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