

Homework H.4.G

Given: Particle P, having a mass of m , is pressed against a spring (having a stiffness of k) with the spring being compressed by an amount of Δ . Upon release from rest, the particle travels along a rough horizontal surface for which the kinetic coefficient of friction is known to be μ_k .

Find: Determine the total distance d traveled by P before coming to rest. Assume that $d > \Delta$. Leave your answer in symbolic form.

