

***12-24.**

When a particle is projected vertically upward with an initial velocity of v_0 , it experiences an acceleration $a = -(g + kv^2)$, where g is the acceleration due to gravity, k is a constant, and v is the velocity of the particle. Determine the maximum height reached by the particle.

SOLUTION

Position:

$$\begin{aligned}
 (+\uparrow) \quad ds &= \frac{v \, dv}{a} \\
 \int_0^s ds &= \int_{v_0}^0 - \frac{v \, dv}{g + kv^2} \\
 s_0^s &= - \left[\frac{1}{2k} \ln(g + kv^2) \right] \bigg|_{v_0}^0 \\
 s &= \frac{1}{2k} \ln \left(\frac{g + kv_0^2}{g} \right)
 \end{aligned}$$

The particle achieves its maximum height when $v = 0$. Thus,

$$\begin{aligned}
 h_{\max} &= \frac{1}{2k} \ln \left(\frac{g + kv_0^2}{g} \right) \\
 &= \frac{1}{2k} \ln \left(1 + \frac{k}{g} v_0^2 \right)
 \end{aligned}$$

Ans.

Ans:

$$h_{\max} = \frac{1}{2k} \ln \left(1 + \frac{k}{g} v_0^2 \right)$$

Meigs Problems Solutions 15 Edition

SJ Ball



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