

Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

David Field

August 20, 2008

Chapter 1

Problem 1.1

A particle, initially at rest, is released from a height h by gravity and falls a distance L before striking a horizontal surface. The surface is perfectly elastic and the particle bounces back to a height h . The particle is released from a height h and falls a distance L before striking a horizontal surface. The surface is perfectly elastic and the particle bounces back to a height h . The particle is released from a height h and falls a distance L before striking a horizontal surface. The surface is perfectly elastic and the particle bounces back to a height h .

Find the velocity of the particle just before it strikes the surface and just after it bounces back to the height h . Find the time interval between the release and the first bounce back to the height h .

$$\text{Velocity just before impact is } v = \sqrt{2gh}.$$

and just after impact is $v = \sqrt{2gh}$.

$$T = \frac{2L}{v} = \frac{2L}{\sqrt{2gh}}.$$

with the particle released from a height h and falls a distance L before striking a horizontal surface. The surface is perfectly elastic and the particle bounces back to a height h .

$$T = \frac{2L}{v} = \frac{2L}{\sqrt{2gh}} = \frac{2L}{\sqrt{2gh}} = \frac{2L}{\sqrt{2gh}}.$$

Find the time interval between the release and the first bounce back to the height h .

Goldstein Classical Mechanics Solution Manual

M Walker



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