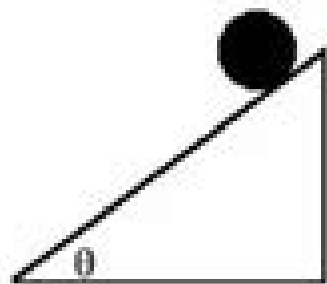


Example



A very common problem is to find the velocity of a ball rolling down an inclined plane. It is important to realize that you cannot work out this problem the way you used to. In the past, everything was SLIDING. Now the object is rolling and thus has MORE energy than normal. So let's assume the ball is like a thin spherical shell and was released from a position 5 m above the ground. Calculate the velocity at the bottom of the incline.

$$E_{before} = E_{after}$$

$$U_g = K_T + K_R$$

$$mgh = \frac{1}{2}mv^2 + \frac{1}{2}I\omega^2$$

$$v = R\omega \quad I_{sphere@cm} = \frac{2}{3}mR^2$$

$$mgh = \frac{1}{2}mv^2 + \frac{1}{2}\left(\frac{2}{3}mR^2\right)\left(\frac{v^2}{R^2}\right)$$

$$gh = \frac{1}{2}v^2 + \frac{1}{3}v^2$$

$$v = \sqrt{\frac{6}{5}gh} = \sqrt{\frac{6}{5}(9.8)(5)} = \mathbf{7.67 \text{ m/s}}$$

$$E_{before} = E_{after}$$

$$U_g = K_T$$

$$mgh = \frac{1}{2}mv^2$$

$$mgh = \frac{1}{2}mv^2$$

$$gh = \frac{1}{2}v^2$$

$$v = \sqrt{2gh} = \sqrt{2(9.8)(5)} = 9.90 \text{ m/s}$$

If you HAD NOT included the rotational kinetic energy, you see the answer is very much different.

Rotational Motion Physics Study Guide Answers

Todd Ruskell



Rotational Motion Physics Study Guide Answers:

Rotational Motion Physics Study Guide Answers Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Rotational Motion Physics Study Guide Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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