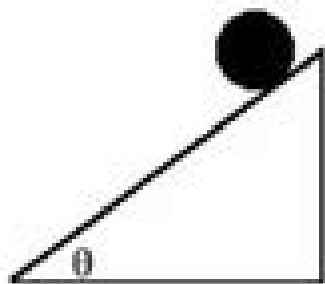


# Example



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

**CL Gary**



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    - Chapter 4: Rotational Motion Physics Study Guide Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Rotational Motion Physics Study Guide Answers. The first chapter will explore what Rotational Motion Physics Study Guide Answers is, why Rotational Motion Physics Study Guide Answers is vital, and how to effectively learn about Rotational Motion Physics Study Guide Answers.
  3. In chapter 2, this book will delve into the foundational concepts of Rotational Motion Physics Study Guide Answers. The second chapter will elucidate the essential principles that must be understood to grasp Rotational Motion Physics Study Guide Answers in its entirety.
  4. In chapter 3, the author will examine the practical applications of Rotational Motion Physics Study Guide Answers in daily life. The third chapter will showcase real-world examples of how Rotational Motion Physics Study Guide Answers can be effectively utilized in everyday scenarios.
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  6. In chapter 5, the author will draw a conclusion about Rotational Motion Physics Study Guide Answers. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Rotational Motion Physics Study Guide Answers.

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