

ROLLER COASTER CALCULATION

Objective:

- Investigate examples of kinetic and potential energy
- Investigate the transformation of energy
- Apply the law of conservation of energy to calculate the kinetic and potential energy at different points in a physical system

A 1200-kg roller coaster going 10 m/s begins its descent down a 30-m tall hill before reaching the bottom and heading back up a 20-m tall hill. Calculate the potential energy, kinetic energy, and velocity at points A – E, as shown. Neglect friction.



Hint: By the conservation of energy, the total energy of the roller coaster at all points is equal. Therefore, if the total energy at point A can be calculated, then it will be equal to the total energy at points B – E.

Potential Energy at A

$$PE_A = mgh_A = (1200)(9.8)(30) = 352,800 \text{ J}$$

Kinetic Energy at A

$$KE_A = \frac{1}{2}mv_A^2 = \frac{1}{2}(1200)(10)^2 = 60,000 \text{ J}$$

Total Energy

$$E_{\text{tot}} = PE_A + KE_A = 352,800 + 60,000 = 412,800 \text{ J}$$

Roller Coaster Calculations Physics Answers

M Mosston



Roller Coaster Calculations Physics Answers:

The book delves into Roller Coaster Calculations Physics Answers. Roller Coaster Calculations Physics Answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Roller Coaster Calculations Physics Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Roller Coaster Calculations Physics Answers
 - Chapter 2: Essential Elements of Roller Coaster Calculations Physics Answers
 - Chapter 3: Roller Coaster Calculations Physics Answers in Everyday Life
 - Chapter 4: Roller Coaster Calculations Physics Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Roller Coaster Calculations Physics Answers. The first chapter will explore what Roller Coaster Calculations Physics Answers is, why Roller Coaster Calculations Physics Answers is vital, and how to effectively learn about Roller Coaster Calculations Physics Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Roller Coaster Calculations Physics Answers. This chapter will elucidate the essential principles that need to be understood to grasp Roller Coaster Calculations Physics Answers in its entirety.
 4. In chapter 3, the author will examine the practical applications of Roller Coaster Calculations Physics Answers in daily life. The third chapter will showcase real-world examples of how Roller Coaster Calculations Physics Answers can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Roller Coaster Calculations Physics Answers in specific contexts. The fourth chapter will explore how Roller Coaster Calculations Physics Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Roller Coaster Calculations Physics Answers. The final chapter will summarize the key points that have been discussed throughout the book.
- The 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 Roller Coaster Calculations Physics Answers.

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