

# 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

**Arturo Cuomo**



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## **Table of Contents Roller Coaster Calculations Physics Answers**

1. Understanding the eBook Roller Coaster Calculations Physics Answers
  - The Rise of Digital Reading Roller Coaster Calculations Physics Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Roller Coaster Calculations Physics Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Roller Coaster Calculations Physics Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Roller Coaster Calculations Physics Answers
  - Personalized Recommendations
  - Roller Coaster Calculations Physics Answers User Reviews and Ratings
  - Roller Coaster Calculations Physics Answers and Bestseller Lists
5. Accessing Roller Coaster Calculations Physics Answers Free and Paid eBooks
  - Roller Coaster Calculations Physics Answers Public Domain eBooks
  - Roller Coaster Calculations Physics Answers eBook Subscription Services
  - Roller Coaster Calculations Physics Answers Budget-Friendly Options

6. Navigating Roller Coaster Calculations Physics Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Roller Coaster Calculations Physics Answers Compatibility with Devices
  - Roller Coaster Calculations Physics Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Roller Coaster Calculations Physics Answers
  - Highlighting and Note-Taking Roller Coaster Calculations Physics Answers
  - Interactive Elements Roller Coaster Calculations Physics Answers
8. Staying Engaged with Roller Coaster Calculations Physics Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Roller Coaster Calculations Physics Answers
9. Balancing eBooks and Physical Books Roller Coaster Calculations Physics Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Roller Coaster Calculations Physics Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Roller Coaster Calculations Physics Answers
  - Setting Reading Goals Roller Coaster Calculations Physics Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Roller Coaster Calculations Physics Answers
  - Fact-Checking eBook Content of Roller Coaster Calculations Physics Answers
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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