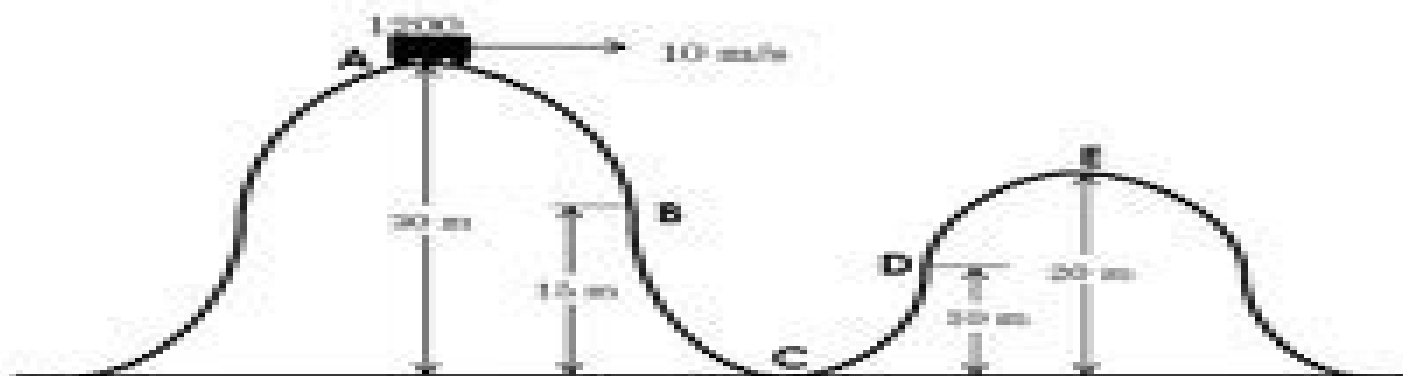


ROLLER COASTER CALCULATION

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

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

Roller Coaster Calculations Physics Answers

Jessica J Manson



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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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