

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

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