

Roller Coaster Physics - (Part 2)

Individual assignment: Do not show

Every year students

submit their Physics lab

report on roller coaster

Knowledge of
Energy in roller
coaster

Lab objectives are:

- Use theory to design roller coaster
- Show that conservation of energy is valid
- Measure the total mechanical energy and its loss



Question: How does energy change as a roller coaster moves?

1. Energy is a scalar quantity and is defined as a force applied through a distance. It is measured in Joules and is conserved in a closed system.

How do mechanical energy and its loss change as a roller coaster moves?

2. Experiment: The mechanical energy of a roller coaster is defined as the sum of its kinetic and potential energy. It is conserved in a closed system.

a. What happens to mechanical energy as the roller coaster moves?

b. What happens to potential energy as the roller coaster moves?

3. Experiment: The mechanical energy of a roller coaster is defined as the sum of its kinetic and potential energy. It is conserved in a closed system.

a. What happens to mechanical energy as the roller coaster moves?

b. What happens to potential energy as the roller coaster moves?

The Roller Coaster Physics Answer Sheet

Lei Huang



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