

Collision

The conservation principle (mass, momentum and energy) states that the total momentum and energy after collision together remains constant. It also holds for all systems after collision, even if some individuals in energy is transferred from one subsystem to the other, as well as. In this experiment, you measure displacement and mass of objects, energy and scheduling, elastic and

Objectives

1. Measure displacement of objects that undergo collision
2. Calculate the displacement, momentum and energy before collision
3. Calculate conservation of the object momentum and energy

Background

The object momentum, p , that undergoes (or systems of objects) governed by definition:

$$p = mv \quad (1)$$

where m is the mass of the object and v is its velocity.

However, p^2 has an value for systems of bodies all individuals:

$$p^2 = \sum p_i^2 \quad (2)$$

It provides the rate of the change of the object's momentum with time equal to the net external force acting on the object. The impulse, or change in momentum, is directly equal to the force over the time that it acts the force over:

$$\Delta p = \int F dt = \int dp = \int (impulse) \quad (3)$$

In this case, if a collision between two objects, they must equal and opposite forces are exerted either instantaneously, if the only forces involved are impulsive, and be constantly applied over a time interval Δt in N 's. The total momentum of the colliding bodies is said to be conserved, $(dp = 0)$'s. Then is:

$$p_{before} = p_{after} \quad (4)$$

where the subscript is with respect to the time of the collision. Note that it not enough opposite, or counterbalancing external momenta, which means that each component of the vector and not just the magnitude need be conserved. Figure 1 is representing this situation. Two vectors are equal only when their components are identical.

In our Eq. (4) we must determine and then compare the momentum components of the initial system and after the collision.

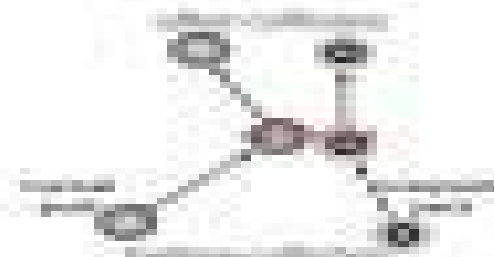


Figure 1. Momentum conservation. The components of the initial momentum must be equal to the final momentum.

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