

Experiment CLM: Collisions and Conservation of Momentum

Introduction:

In this experiment you will investigate the conservation of momentum during a collision between two pucks.

Experimental Aims:

The aim of this experiment is to:

1. Determine the velocity of two pucks before and after a collision by analysing a video recording of the collision.
2. Determine the momentum of the pucks before and after the collision and investigate the principle of momentum conservation.

Skills Developed:

1. The use of video analysis software to determine the velocity of an object.
2. Use of an electronic scale.
3. Use of graphical and algebraic methods to add vectors.
4. Interpretation of data.
5. Drawing of conclusions from results.

Theoretical background:

You need to read up on the theoretical background of the practical beforehand. All the required information is in Halliday Resnick & Walker (use the index to find it). Your knowledge on the topics will be tested in the pre-practical test.

Note: The term *linear momentum* is sometimes used to distinguish it from *angular momentum*. When the term *momentum* is used on its own, it usually refers to *linear momentum*.

You should be able to do the following:

- Explain what the difference between a vector and a scalar is.
- Find the x and y components of a vector, given its magnitude and direction (and vice versa).
- Add vectors graphically and algebraically.
- Explain the difference between speed and velocity is, and how they are related.
- Explain how velocity can be calculated if displacement and the time interval over which the displacement took place, is known.
- Define momentum by stating a formula by means of which it may be calculated from the mass and velocity of an object.
- State the SI-units of momentum and state whether it is a scalar or a vector quantity.
- Write down the law of conservation of momentum both in words as well as an equation.

Eksperiment CLM: Botsings en Behoud van Momentum

Inleiding:

In hierdie eksperiment sal u die behoud van momentum tydens 'n botsing tussen twee skywe ondersoek.

Eksperimentele Doel:

Die doel van die eksperiment is om:

1. Die snelheid van twee skywe voor en na 'n botsing te bepaal deur 'n video-opname van die botsing te analiseer.
2. Die momentum van die skywe voor en na die botsing te bepaal, en die beginsel van behoud van momentum te ondersoek.

Vaardighede Ontwikkel:

1. Die gebruik van video-analise-programmatuur om die snelheid van 'n voorwerp te bepaal.
2. Gebruik van 'n elektroniese skaal.
3. Die gebruik van grafiese en algebraïese metodes om vektore op te tel.
4. Interpretasie van data.
5. Maak van gevolgtrekkings.

Teoretiese agtergrond:

U moet oor die teoretiese agtergrond van die eksperiment optree. Al die nodige inligting is in Halliday, Resnick & Walker (gebruik die indeks om dit te vind). U kennis oor die werk sal deur middel van 'n vooraf-toets bepaal word.

Neem kennis: Die term *lineêre momentum* word soms gebruik om spesifiek van *hoekmomentum* te onderskei. Wanneer slegs *momentum* geskryf word, word *lineêre momentum* bedoel.

U moet in staat wees om die volgende te doen:

- Verduidelik wat die verskil tussen 'n vektor en 'n skalaar is.
- Vind die x - en y -koördinate van 'n vektor, as sy grootte en rigting gegee is (en omgekeerd).
- Tel vektore grafies en algebraïes op.
- Verduidelik wat die verskil tussen speed en snelheid is, en wat die verband tussen die twee hoeveelhede is.
- Verduidelik hoe snelheid bereken kan word, as verplasing en die tydinterval waaroor die verplasing plaasgevind het, bekend is.
- Definieer momentum deur 'n formule te gee waarmee dit uit die massa en snelheid van 'n voorwerp bereken kan word.
- Gee ook die SI-eenhede van momentum en noem of dit 'n vektor of 'n skalaargrootheid is.
- Skryf die wet van momentumbehoud in woorde asook as 'n vergelyking neer.
- Onder watter omstandighede bly die momentum van 'n

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