

THE CONSERVATION OF LINEAR MOMENTUM

Introduction

In this experiment you will test the validity of the Law of Conservation of Linear Momentum in one dimension utilizing elastic and inelastic collisions on an air track.

Apparatus

Computer with Logger Pro software

Vernier Lab Pro box

Pasco Air Track

Air supply

Air Track Accessory kit - bumpers for the elastic collision

Air Track Gliders (2)

Vernier Photogate (2)

Ring Stands (2)

Right angle clamps (2) or integral photogate clamps

Laboratory Balance

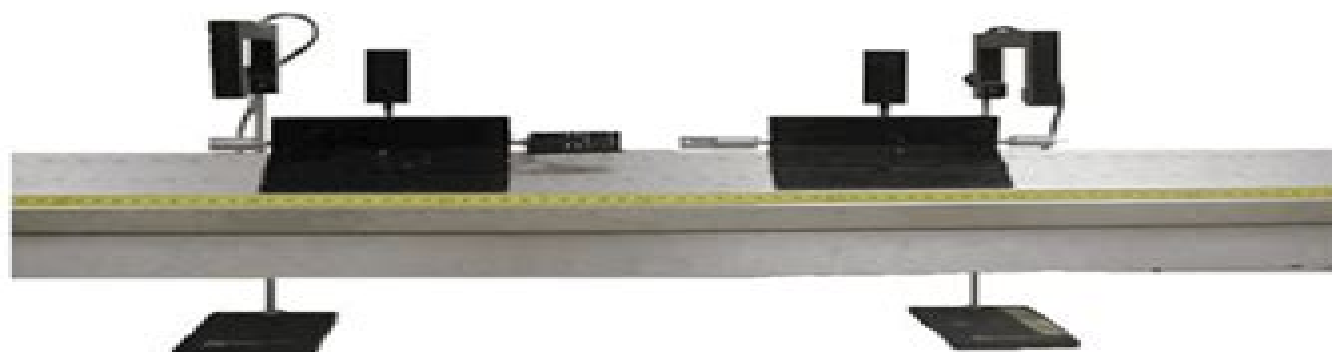


Figure 0: Elastic Near Collision

Theory

If two objects collide, and are subject to no net external forces, then it can be shown by application of Newton's 2nd and 3rd Laws that the total linear momentum of the system of masses will not be altered by the collision. The linear momentum of an object of mass m_1 and velocity v_1 is given by $p_1 = m_1 v_1$. In a system consisting of two objects of momentum p_1 and p_2 , the total linear momentum is the vector sum of their individual momenta:

$$\mathbf{p}_1 + \mathbf{p}_2 = m_1 \mathbf{v}_1 + m_2 \mathbf{v}_2$$

The total linear momentum *before* collision is $m_1 \mathbf{v}_1 + m_2 \mathbf{v}_2$

Linear Momentum Lab Manual Solutions

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Table of Contents Linear Momentum Lab Manual Solutions

1. Understanding the eBook Linear Momentum Lab Manual Solutions
 - The Rise of Digital Reading Linear Momentum Lab Manual Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Linear Momentum Lab Manual Solutions
 - 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 Linear Momentum Lab Manual Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Linear Momentum Lab Manual Solutions
 - Personalized Recommendations
 - Linear Momentum Lab Manual Solutions User Reviews and Ratings
 - Linear Momentum Lab Manual Solutions and Bestseller Lists
5. Accessing Linear Momentum Lab Manual Solutions Free and Paid eBooks
 - Linear Momentum Lab Manual Solutions Public Domain eBooks

- Linear Momentum Lab Manual Solutions eBook Subscription Services
- Linear Momentum Lab Manual Solutions Budget-Friendly Options
- 6. Navigating Linear Momentum Lab Manual Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Linear Momentum Lab Manual Solutions Compatibility with Devices
 - Linear Momentum Lab Manual Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Linear Momentum Lab Manual Solutions
 - Highlighting and Note-Taking Linear Momentum Lab Manual Solutions
 - Interactive Elements Linear Momentum Lab Manual Solutions
- 8. Staying Engaged with Linear Momentum Lab Manual Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Linear Momentum Lab Manual Solutions
- 9. Balancing eBooks and Physical Books Linear Momentum Lab Manual Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Linear Momentum Lab Manual Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Linear Momentum Lab Manual Solutions
 - Setting Reading Goals Linear Momentum Lab Manual Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Linear Momentum Lab Manual Solutions
 - Fact-Checking eBook Content of Linear Momentum Lab Manual Solutions
 - 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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