

Momentum Notes

Momentum - motion inertia \rightarrow velocity

Symbol p

Equation $p = m \cdot v$
 \downarrow
 mass

Unit $\text{kg} \cdot \text{m/s}$

Problem Set #1: (1-2)

① $m = 2500 \text{ kg}$
 a) $v_1 = 18 \text{ m/s}$
 b) $v_2 = 0$

 a) $p_1 = ?$
 b) $p_2 = ?$

$p = m \cdot v$
 a) $p_1 = 2500 \text{ kg} \cdot 18 \text{ m/s}$
 $= 45000 \text{ kg} \cdot \text{m/s}$
 b) $p_2 = 0 \text{ kg} \cdot \text{m/s}$

② $m_1 = 0.13 \text{ kg}$
 $v = 36 \text{ m/s}$

 a) $p_1 = ?$
 b) $m_2 = 7.3 \text{ kg}$
 $v_2 = ?$
 $p_1 = p_2$

 $v_2 = \frac{4.68 \text{ kg} \cdot \text{m/s}}{7.3 \text{ kg}} = 0.64 \text{ s}$

Impulse Equation: $F \cdot t$ = $\Delta m v$
Impulse change in momentum

An impulse is required to change the momentum of an object.
 A change in momentum creates an impulse.

A golfer follows through on a swing to increase the ball's velocity and make it travel farther.

$$F t = m \Delta v$$

Following through keeps the club head on the ball for a longer period of time.
 Since time and velocity are directly proportional, increasing time of contact increases velocity.

Answer using words and the impulse equation:

Why does a batter stop the bat when bunting?

To decrease the time on contact and decrease the velocity of the ball so it won't travel so far.

Note Taking Guide Episode 901 Physicsfundamentals

Daniela Niemeyer



Note Taking Guide Episode 901 Physicsfundamentals:

Reviewing **Note Taking Guide Episode 901 Physicsfundamentals**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Note Taking Guide Episode 901 Physicsfundamentals**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Note Taking Guide Episode 901 Physicsfundamentals

1. Understanding the eBook Note Taking Guide Episode 901 Physicsfundamentals
 - The Rise of Digital Reading Note Taking Guide Episode 901 Physicsfundamentals
 - Advantages of eBooks Over Traditional Books
2. Identifying Note Taking Guide Episode 901 Physicsfundamentals
 - 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 Note Taking Guide Episode 901 Physicsfundamentals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Note Taking Guide Episode 901 Physicsfundamentals
 - Personalized Recommendations
 - Note Taking Guide Episode 901 Physicsfundamentals User Reviews and Ratings
 - Note Taking Guide Episode 901 Physicsfundamentals and Bestseller Lists

5. Accessing Note Taking Guide Episode 901 Physicsfundamentals Free and Paid eBooks
 - Note Taking Guide Episode 901 Physicsfundamentals Public Domain eBooks
 - Note Taking Guide Episode 901 Physicsfundamentals eBook Subscription Services
 - Note Taking Guide Episode 901 Physicsfundamentals Budget-Friendly Options
6. Navigating Note Taking Guide Episode 901 Physicsfundamentals eBook Formats
 - ePub, PDF, MOBI, and More
 - Note Taking Guide Episode 901 Physicsfundamentals Compatibility with Devices
 - Note Taking Guide Episode 901 Physicsfundamentals Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Note Taking Guide Episode 901 Physicsfundamentals
 - Highlighting and Note-Taking Note Taking Guide Episode 901 Physicsfundamentals
 - Interactive Elements Note Taking Guide Episode 901 Physicsfundamentals
8. Staying Engaged with Note Taking Guide Episode 901 Physicsfundamentals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Note Taking Guide Episode 901 Physicsfundamentals
9. Balancing eBooks and Physical Books Note Taking Guide Episode 901 Physicsfundamentals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Note Taking Guide Episode 901 Physicsfundamentals
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Note Taking Guide Episode 901 Physicsfundamentals
 - Setting Reading Goals Note Taking Guide Episode 901 Physicsfundamentals
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Note Taking Guide Episode 901 Physicsfundamentals
 - Fact-Checking eBook Content of Note Taking Guide Episode 901 Physicsfundamentals
 - 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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