

Physical Science Worksheet

Name

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151er

Force (N) = mass (kg) $\times$ acceleration (m/s^2)

Acceleration of gravity

Velocity (v) = acceleration (a) $\times$ time (t)

$a = g = 9.8 \text{ m/s}^2$

1. The maximum acceleration of a fist in a karate blow has been measured to be 3500 m/s^2 . The mass of the fist is .70 kg. If the fist hits a wooden block, what force does the wood place on the fist?

2. How much force is needed to accelerate a bicycle and rider with mass 60 kg at 1.5 m/s^2 ?

$$60 \text{ kg} \times 1.5 \text{ m/s}^2$$

3. What is the acceleration of a 4000 kg airplane that has a force on it of 24000 N?

$$4000 \text{ kg}$$

4. An 80-N force will accelerate a 20-kg mass at 4 m/s^2 .

a. What force will be required to maintain the same acceleration if the mass is doubled?

b. If the mass is doubled and the force remains the same what is the acceleration?

5. An acorn falls from the top of an oak tree to the ground in 1.5 seconds. What is the velocity of the acorn when it hits the ground?

$$14.7$$

6. An object dropped from a 20-story building takes about 4 seconds to fall. How fast is it going when it strikes the ground?

$$39.2$$

Physical Science If8767 Acceleration Calculation

Lingsheng Yao



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Principles of Charged Particle Acceleration Stanley Humphries, 2013-09-11 This authoritative text offers a unified programmed summary of the principles underlying all charged particle accelerators it also doubles as a reference collection of equations and material essential to accelerator development and beam applications The only text that covers linear induction accelerators the work contains straightforward expositions of basic principles rather than detailed theories of specialized areas 1986 edition

Miles' Equation in Random Vibrations Jaap Wijker, 2018-01-25 This book discusses the theory applicability and numerous examples of Miles equation in detail Random vibration is one of the main design drivers in the context of the design development and verification of spacecraft structures instruments equipment etc and Miles equation provides a valuable tool for solving random vibration problems It allows mechanical engineers to make rapid preliminary random response predictions when the complex structure is exposed to mechanical and acoustical loads The book includes appendices to support the theory and applications in the main chapters

[Physics Velocity and Acceleration](#)
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Table of Contents Physical Science If8767 Acceleration Calculation

1. Understanding the eBook Physical Science If8767 Acceleration Calculation
 - The Rise of Digital Reading Physical Science If8767 Acceleration Calculation
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science If8767 Acceleration Calculation
 - 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 Physical Science If8767 Acceleration Calculation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science If8767 Acceleration Calculation
 - Personalized Recommendations
 - Physical Science If8767 Acceleration Calculation User Reviews and Ratings
 - Physical Science If8767 Acceleration Calculation and Bestseller Lists

5. Accessing Physical Science If8767 Acceleration Calculation Free and Paid eBooks
 - Physical Science If8767 Acceleration Calculation Public Domain eBooks
 - Physical Science If8767 Acceleration Calculation eBook Subscription Services
 - Physical Science If8767 Acceleration Calculation Budget-Friendly Options
6. Navigating Physical Science If8767 Acceleration Calculation eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science If8767 Acceleration Calculation Compatibility with Devices
 - Physical Science If8767 Acceleration Calculation Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science If8767 Acceleration Calculation
 - Highlighting and Note-Taking Physical Science If8767 Acceleration Calculation
 - Interactive Elements Physical Science If8767 Acceleration Calculation
8. Staying Engaged with Physical Science If8767 Acceleration Calculation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science If8767 Acceleration Calculation
9. Balancing eBooks and Physical Books Physical Science If8767 Acceleration Calculation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science If8767 Acceleration Calculation
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science If8767 Acceleration Calculation
 - Setting Reading Goals Physical Science If8767 Acceleration Calculation
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science If8767 Acceleration Calculation
 - Fact-Checking eBook Content of Physical Science If8767 Acceleration Calculation
 - 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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