

PHYSICS GRADE 10

CHAPTER ONE LINEAR MOTION

Introduction:

Study of motion is divided into two:

1. Kinematics
2. Dynamics

In kinematics forces causing motion are disregarded while dynamics deals with motion of objects and the forces causing them.

A. Displacement

Distance covered by a body in a specified direction is called displacement. It is denoted by letter 's' and has both magnitude and direction. Distance is the movement from one point to another. The SI unit for displacement is the metre (m).

B. Speed

This is the distance covered per unit time.

Speed = distance covered/ time taken. (Distance is a scalar quantity since it has magnitude only. The SI unit for speed is metres per second (m/s or ms⁻¹).

Average speed = total distance covered/total time taken

Other units for speed used are Km/h.

(Examples)

1. A body covers a distance of 20m in 4 seconds, it rests for 10 seconds and finally covers a distance of 50m in 10 seconds. Calculate the average speed.

Solution

Total distance covered = 20 + 50 = 70m

Total time taken = 4 + 10 + 10 = 24 seconds

Therefore average speed = 70/24 = 2.9m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 100 km/h in 20 seconds.

Solution

Distance covered = speed × time

$$= 100 \times \frac{20}{3600} \text{ (convert km/h to m/s)}$$

$$= 50 \times 20$$

$$= 1000 \text{ m}$$

3. Calculate the time in seconds taken a body moving with a uniform speed of 100 km/h to cover a distance of 2.000 km?

Solution

Speed: 100 km/h = $100 \times \frac{1000}{3600} \text{ m/s} = 27.78 \text{ m/s}$

Time = distance/speed

$$2000 \div 27.78 \text{ m/s}$$

$$= 72.000 \text{ seconds.}$$

iii. Velocity

This is the change of displacement per unit time. It is a vector quantity.

Velocity = change in displacement/total time taken

The SI unit for velocity is m/s

(Examples)

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Zhe Xu



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Resources in Education ,2001-04 Selected Characteristics of Persons in Physical Science, 1978 Thomas J. Palumbo, United States. Bureau of the Census, 1980 First report in a new series Provides data based on the 1978 surveys known as the National Sample of Scientists and Engineers Profiled are chemists physicists astronomers and other physical scientists Data include the age sex race composition

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TABLE OF CONTENT
Solved Paper November 2018
Solved Paper October 2017
Solved Paper December 2016
Solved Paper February 2016
Child Development and Pedagogy
Language I English
Language II Hindi
Mathematics
Environmental Studies

Research in Education ,1974 *The American Dictionary and Cyclopaedia* Robert Hunter, 1900 **Research in Progress** ,1969 *Chemical News and Journal of Physical Science* ,1873 *Bibliographic Service for the Journal of Morphology, the Journal of Comparative Neurology, the American Journal of Anatomy, the Anatomical Record, the Journal of Experimental Zoology, the American Anatomical Memoirs ...* ,1922 ... *Bibliographic Service for the Journal of Morphology, the Journal of Comparative Neurology, the American Journal of Anatomy, the Anatomical Record, the Journal of Experimental Zoology, the American Anatomical Memoirs ...* Wistar Institute of Anatomy and Biology, 1922

The Century Dictionary ,1890 *The American Journal of Sociology* Albion W. Small, Ellsworth Faris, Ernest Watson Burgess, 1903 Established in 1895 as the first U S scholarly journal in its field AJS remains a leading voice for analysis and research in the social sciences presenting work on the theory methods practice and history of sociology AJS also seeks the application of perspectives from other social sciences and publishes papers by psychologists anthropologists statisticians economists educators historians and political scientists

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formulae symbolically on a computer Contrary to numerics these computations are exact and there is no loss of accuracy After decades of research and development these tools are now becoming as indispensable in Science and Engineering as traditional number crunching already is The ZiF 94 workshop is amongst the first devoted specifically to applications of computer algebra CA in Science and Engineering The book documents the state of the art in this area and serves as an important reference for future work

The Century Dictionary and Cyclopedia: Dictionary William Dwight Whitney,1904

Free Will and Action Explanation Scott Sehon,2016-04-29 Do we have free will and moral responsibility Is free will compatible with determinism Scott Sehon argues that we can make progress on these questions by focusing on an underlying issue the nature of action explanation When a person acts or does something on purpose we explain the behavior by citing the agent's reasons The dominant view in philosophy of mind has been to construe such explanations as a species of causal explanation Part I of the book proposes and defends a non causal account of action and agency according to which reason explanation of human behavior is irreducibly teleological rather than causal Part II applies the teleological account of action to free will and responsibility arguing that the free actions the ones for which we are directly responsible are the goal directed actions the actions that are teleologically explicable in terms of our reasons It is then argued that this non causal account of action undermines the appeal of incompatibilist arguments arguments attempting to show that free will is not compatible with determinism Beyond this Sehon argues that the non causal compatibilist account works well in practice it is in accord with our clear intuitions about cases and it both explains and provides guidance in the cases where our intuitions are murkier

The New American Encyclopedic Dictionary Robert Hunter,Edward Thomas Roe,Le Roy Hooker,Thomas W. Handford,1906

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Table of Contents Scope For Physical Science Final Paper1

1. Understanding the eBook Scope For Physical Science Final Paper1
 - The Rise of Digital Reading Scope For Physical Science Final Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying Scope For Physical Science Final Paper1
 - 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 Scope For Physical Science Final Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scope For Physical Science Final Paper1
 - Personalized Recommendations
 - Scope For Physical Science Final Paper1 User Reviews and Ratings
 - Scope For Physical Science Final Paper1 and Bestseller Lists

5. Accessing Scope For Phusical Science Final Paper1 Free and Paid eBooks
 - Scope For Phusical Science Final Paper1 Public Domain eBooks
 - Scope For Phusical Science Final Paper1 eBook Subscription Services
 - Scope For Phusical Science Final Paper1 Budget-Friendly Options
6. Navigating Scope For Phusical Science Final Paper1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Scope For Phusical Science Final Paper1 Compatibility with Devices
 - Scope For Phusical Science Final Paper1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scope For Phusical Science Final Paper1
 - Highlighting and Note-Taking Scope For Phusical Science Final Paper1
 - Interactive Elements Scope For Phusical Science Final Paper1
8. Staying Engaged with Scope For Phusical Science Final Paper1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scope For Phusical Science Final Paper1
9. Balancing eBooks and Physical Books Scope For Phusical Science Final Paper1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scope For Phusical Science Final Paper1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Scope For Phusical Science Final Paper1
 - Setting Reading Goals Scope For Phusical Science Final Paper1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Scope For Phusical Science Final Paper1
 - Fact-Checking eBook Content of Scope For Phusical Science Final Paper1
 - 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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