

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.

I. Displacement

Distance moved 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).

II. 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 10m in 4 seconds. It rests for 10 seconds and finally covers a distance of 50m in 60 seconds. Calculate the average speed.

Solution

Total distance covered=10+50=100m

Total time taken=4+10+6=20 seconds

Therefore average speed=100/20=5m/s

2. Calculate the distance in metres covered by a body moving with a uniform speed of 180 km/h in 30 seconds.

Solution

Distance covered=speed*time

$$=180 \times 1000 / 60 \times 60 = 50 \text{ m/s}$$

$$=50 \times 30$$

$$=1,500 \text{ m}$$

3. Calculate the time in seconds taken a by body moving with a uniform speed of 360km/h to cover a distance of 3,000 km?

Solution

Speed: 360 km/h= $360 \times 1000 / 60 \times 60 = 100 \text{ m/s}$

Time=distance/speed

$$3000 \times 1000 / 100$$

$$=30,000 \text{ seconds.}$$

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 units for velocity are m/s

Examples

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**United States. Congress. House.
Committee on Appropriations.
Subcommittee on Energy and Water
Development**

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Energy and Water Development Appropriations for 2014 United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2013 **Department of Energy fiscal year 2014 justifications** United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development, 2013 Towards an embodied science of intersubjectivity: Widening the scope of social understanding research Ezequiel Di Paolo, Hanne De Jaegher, 2015-06-16 An important amount of research effort in psychology and neuroscience over the past decades has focused on the problem of social cognition This problem is understood as how we figure out other minds relying only on indirect manifestations of other people's intentional states which are assumed to be hidden private and internal Research on this question has mostly investigated how individual cognitive mechanisms achieve this task A shift in the internalist assumptions regarding intentional states has expanded the research focus with hypotheses that explore the role of interactive phenomena and interpersonal histories and their implications for understanding individual cognitive processes This interactive expansion of the conceptual and methodological toolkit for investigating social cognition we now propose can be followed by an expansion into wider and deeply related research questions beyond but including that of social cognition narrowly construed Our social lives are populated by different kinds of cognitive and affective phenomena that are related to but not exhausted by the question of how we figure out other minds These phenomena include acting and perceiving together verbal and non verbal engagement experiences of disconnection management of relations in a group joint meaning making intimacy trust conflict negotiation asymmetric relations material mediation of social interaction collective action contextual engagement with socio cultural norms structures and roles etc These phenomena are often characterized by a strong participation by the cognitive agent in contrast with the spectatorial stance typical of social cognition research We use the broader notion of embodied intersubjectivity to refer to this wider set of phenomena This Research Topic aims to investigate relations between these different issues to help lay strong foundations for a science of intersubjectivity the social mind writ large To contribute to this goal we encouraged contributions in psychology neuroscience psychopathology philosophy and cognitive science that address this wider scope of intersubjectivity by extending the range of explanatory factors from purely individual to interactive from observational to participatory *Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)* Union Of International Associations, Union of International Associations, 2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events *Guide to RRB Junior Engineer Stage II Exam - Physics, Chemistry, General Awareness, Basics of Computers, Environment & Pollution Control* Disha Experts, 2019-01-25 The book Guide to RRB Junior Engineer Stage II Online Exam has 4 sections common to all streams General Awareness Physics Chemistry Basics of Computers and Applications Basics of Environment and Pollution Control Each section is further divided into chapters which contains theory explaining the concepts involved followed by

MCQ exercises The book provides the past 2014 2015 Solved Questions The detailed solutions to all the questions are provided at the end of each chapter

Blended Learning for Inclusive and Quality Higher Education in Asia Cher Ping Lim, Charles R. Graham, 2021-02-22 This book demonstrates how blended learning improves access to and enhances the quality of higher education teaching and learning in Asian universities It first discusses how leading universities in the region drive and support blended learning at the institutional level to enhance student learning engagement and outcomes It then examines 10 effective implementations and lessons learned of blended learning practices across different disciplinary courses and programmes humanities and language science and engineering social science and education and others in the region The chapters in this book provide an overview of the opportunities and challenges of blended learning for improved access and enhanced quality of higher education and offer insights into the promising blended learning policies and practices in Asian universities

Cracking the GRE with 4 Practice Tests, 2014 Edition Princeton Review, 2013-07-16 THE PRINCETON REVIEW GETS RESULTS Get all the prep you need to ace the GRE with 4 full length practice tests thorough GRE topic reviews and extra practice online This eBook edition of Cracking the GRE has been optimized for on screen viewing with cross linked questions answers and explanations Inside the Book All the Practice Strategies You Need 2 full length practice tests with detailed answer explanations Expert subject reviews for all GRE test topics Drills for each test section Verbal Reasoning Quantitative Reasoning and the Essays Key strategies for tackling Text Completion Numeric Entry Quantitative Comparison and other question types Practical information general GRE strategies Exclusive Access to More Practice and Resources Online 2 additional full length practice exams Instant score reports for online tests Full answer explanations free performance statistics Step by step explanations for the toughest GRE questions Downloadable study guides grad school program profiles and searchable advice section and more

Handbook of Radiotherapy Physics Philip Mayles, Alan E. Nahum, J.C. Rosenwald, 2021-12-30 From the essential background physics and radiobiology to the latest imaging and treatment modalities the updated second edition of Handbook of Radiotherapy Physics Theory Practice covers all aspects of the subject In Volume 1 Part A includes the Interaction of Radiation with Matter charged particles and photons and the Fundamentals of Dosimetry with an extensive section on small field physics Part B covers Radiobiology with increased emphasis on hypofractionation Part C describes Equipment for Imaging and Therapy including MR guided linear accelerators Part D on Dose Measurement includes chapters on ionisation chambers solid state detectors film and gels as well as a detailed description and explanation of Codes of Practice for Reference Dose Determination including detector correction factors in small fields Part E describes the properties of Clinical external Beams The various methods or algorithms for Computing Doses in Patients irradiated by photon electron and proton beams are described in Part F with increased emphasis on Monte Carlo based and grid based deterministic algorithms In Volume 2 Part G covers all aspects of Treatment Planning including CT MR and Radionuclide based patient imaging Intensity Modulated Photon Beams Electron

and Proton Beams Stereotactic and Total Body Irradiation and the use of the dosimetric and radiobiological metrics TCP and NTCP for plan evaluation and optimisation Quality Assurance fundamentals with application to equipment and processes are covered in Part H Radionuclides equipment and methods for Brachytherapy and Targeted Molecular Therapy are covered in Parts I and J respectively Finally Part K is devoted to Radiation Protection of the public staff and patients Extensive tables of Physical Constants Photon Electron and Proton Interaction data and typical Photon Beam and Radionuclide data are given in Part L Edited by recognised authorities in the field with individual chapters written by renowned specialists this second edition of Handbook of Radiotherapy Physics provides the essential up to date theoretical and practical knowledge to deliver safe and effective radiotherapy It will be of interest to clinical and research medical physicists radiation oncologists radiation technologists PhD and Master s students

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