

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 = $10 + 50 = 100\text{m}$

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

Therefore average speed = $100 / 20 = 5\text{m/s}$

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
 $= 180 * 1000 / 60 * 60 = 50\text{m/s}$
 $= 50 * 30$
 $= 1,500\text{m}$

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: $360 \text{ km/h} = 360 * 1000 / 60 * 60 = 100\text{m/s}$
Time = distance / speed
 $3000 * 1000 / 100$
 $= 30,000 \text{ seconds.}$

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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High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine, National Academy of Engineering, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Connector Reliability for Offshore Oil and Natural Gas Operations, 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic. Bolted connections are an integral feature of deep water well operations. High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors. It focuses on critical bolting bolts, studs, nuts, and fasteners used on critical connections. *Big Data and High Performance Computing* L. Grandinetti, G.R. Joubert, M. Kunze, 2015-10-20 Big Data has been much in the news in recent years and the advantages conferred by the collection and analysis of large datasets in fields such as marketing, medicine, and finance have led to claims that almost any real world problem could be solved if sufficient data were available. This is of course a very simplistic view and the usefulness of collecting, processing, and storing large datasets must always be seen in terms of the communication, processing, and storage capabilities of the computing platforms available. This book presents papers from the International Research Workshop Advanced High Performance Computing Systems held in Cetraro, Italy, in July 2014. The papers selected for publication here discuss fundamental aspects of the definition of Big Data as well as considerations from practice where complex datasets are collected, processed, and stored. The concepts, problems, methodologies, and solutions presented are of much more general applicability than may be suggested by the particular application areas considered. As a result, the book will be of interest to all those whose work involves the processing of very large data sets, exascale computing, and the emerging fields of data science. **EPQ Toolkit for AQA - A Guide for Students (Updated Edition)** Cara Flanagan, Jane McGee, 2022-11-04 This bestselling and hugely popular EPQ Toolkit for AQA is a highly practical, colourful, magazine-style guide that provides support, advice, and guidance for carrying out your independent extended project work. It will support you through your whole EPQ journey, from helping you to choose your project to planning, developing, and executing both the production log and the final product. Numerous exemplars of student projects help illustrate good and bad practice, helping you to improve your final mark. An EPQ Moderator with extensive experience of AQA's EPQ provides invaluable hints, tips, and

advice throughout giving you the confidence you need to work independently and succeed with their project The guide provides the resources and ideas for Supervisors to deliver the taught element of the EPQ and successfully guide students from start to finish It offers a framework for developing the skills students need to succeed including research critical thinking analysis synthesis evaluation and presentation skills There are a wide range of activities with answers provided at the end of the book Free teacher PowerPoint presentations are available which provide a scheme of work to support the 30 hours taught element

Development of executive function during childhood Yusuke Moriguchi, Philip D Zelazo, Nicolas Chevalier, 2016-04-01 Executive function refers to the goal oriented regulation of one's own thoughts actions and emotions Its importance is attested by its contribution to the development of other cognitive skills e.g. theory of mind social abilities e.g. peer interactions and academic achievement e.g. mathematics and by the consequences of deficits in executive function which are observed in wide range of developmental disorders such as attention deficit hyperactivity disorder and autism Over the last decade there have been growing interest in the development of executive function and an expanding body of research has shown that executive function develops rapidly during the preschool years with adult level performance being achieved during adolescence or later This recent work together with experimental research showing the effects of interventions targeting executive function has yielded important insights into the neurocognitive processes underlying executive function Given the complexity of the construct of executive function however and the multiplicity of underlying processes there are often inconsistencies in the way that executive function is defined and studied This inconsistency has hampered communication among researchers from various fields This Research Topic is intended to bridge this gap and provide an opportunity for researchers from different perspectives to discuss recent advances in understanding childhood executive function Researchers using various methods including behavioral experiments neuroimaging eye tracking computer simulation observational methods and questionnaires are encouraged to contribute original empirical research In addition to original empirical articles theoretical reviews and opinions perspective articles on promising future directions are welcome We hope that researchers from different areas such as developmental psychology educational psychology experimental psychology neuropsychology neuroscience psychiatry computational science etc will be represented in the Research Topic

Leading improvement in school community wellbeing Donna Cross, Leanne Lester, 2023-12-01 More than ever before the wellbeing of students staff and the school community must be a priority for principals and school leaders Leading Improvement in School Community Wellbeing provides a framework for a set of high impact strategies that individually and together can be the focus of improving wellbeing across the school The book provides school leaders with key research based school improvement practices authentic case studies in the form of principals reflections and crucially practical explanations outlining how to choose a particular practice and how to successfully embed or implement that strategy within the school Asking What's happening What's working and What's next the three parts of the book provide tools

to assess the school community's wellbeing strengths and needs to determine actions required to improve student and staff wellbeing and to effectively implement wellbeing strategies across the school for the benefit of the entire school community

Stem, steam, computational thinking and coding: Evidence-based research and practice in children's development Stamatios Papadakis, Michail Kalogiannakis, Ali Ibrahim Can Gözümlü, 2023-03-13 **The Publishers' Circular and Booksellers' Record**, 1916 Handbook of Biomarkers and Precision Medicine Claudio Carini, Mark Fidock, Alain van Gool, 2019-04-16 The field of Biomarkers and Precision Medicine in drug development is rapidly evolving and this book presents a snapshot of exciting new approaches. By presenting a wide range of biomarker applications discussed by knowledgeable and experienced scientists, readers will develop an appreciation of the scope and breadth of biomarker knowledge and find examples that will help them in their own work. Maria Freire Foundation for the National Institutes of Health. Handbook of Biomarkers and Precision Medicine provides comprehensive insights into biomarker discovery and development which has driven the new era of Precision Medicine. A wide variety of renowned experts from government, academia, teaching hospitals, biotechnology and pharmaceutical companies share best practices, examples and exciting new developments. The handbook aims to provide in-depth knowledge to research scientists, students and decision makers engaged in Biomarker and Precision Medicine-centric drug development. Features: Detailed insights into biomarker discovery, validation and diagnostic development with implementation strategies; Lessons learned from successful Precision Medicine case studies; A variety of exciting and emerging biomarker technologies; The next frontiers and future challenges of biomarkers in Precision Medicine. Claudio Carini, Mark Fidock and Alain van Gool are internationally recognized as scientific leaders in Biomarkers and Precision Medicine. They have worked for decades in academia and pharmaceutical industry in EU, USA and Asia. Currently, Dr Carini is Honorary Faculty at King's College School of Medicine, London, UK. Dr Fidock is Vice President of Precision Medicine Laboratories at AstraZeneca, Cambridge, UK. Prof. Dr van Gool is Head, Translational Metabolic Laboratory at Radboud University Medical School, Nijmegen, NL. **British Books**, 1916 **Publishers' Circular and Booksellers' Record of British and Foreign Literature**, 1916 *Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971* New York Public Library. Research Libraries, 1979 The Publisher, 1916

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