

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

$$= 100 \times \frac{20}{3600} = 5.55 \text{ m}$$

$$= 5.5 \text{ m}$$

$$= 5.6 \text{ m}$$

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 = $100 \times \frac{1000}{3600} = 27.78 \text{ m/s}$

Time = distance/speed

$$= \frac{2000}{27.78} = 72 \text{ s}$$

$$= 72 \text{ s}$$

C. 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

Scope For Physics Exam 2013 November

Grant Ramsey, Andreas De Block



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ECIAIR 2019 European Conference on the Impact of Artificial Intelligence and Robotics Dr Paul Griffiths ,Dr. Mitt Nowshade Kabir ,2019-10-31 *Issues in Water and Power Engineering: 2013 Edition* ,2013-05-01 Issues in Water and Power Engineering 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Fusion Engineering The editors have built Issues in Water and Power Engineering 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Fusion Engineering in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Water and Power Engineering 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Monthly Catalogue, United States Public Documents* ,1995 *Monthly Catalog of United States Government Publications* ,1995 **Engineering Index** ,1928 **Independent Schools Yearbook 2012-2013** none,2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS **Proceedings of International Conference on Computational Intelligence and Emerging Power System** Ramesh C. Bansal,Akka Zemmari,K. G. Sharma,Jyoti Gajrani,2021-12-13 This book gathers outstanding research papers presented in the International Conference on Computational Intelligence and Emerging Power System ICCIPS 2021 held on March 9 10 2021 at Engineering College Ajmer ICCIPS 2021 is jointly organized by the Department of CSE and Department of EE Engineering College Ajmer Rajasthan India The topics covered in the book are collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics natural language processing renewable energy signal processing optimization methods for power system smart grid micro grid energy management power system monitoring system load management and distributed generation *Color Vision Sensation and Perception* Marcelo Fernandes Costa,2016-09-15 Color vision is considered a microcosm of the visual science Special physiological and psychological processes make this scientific topic an intriguing and complex research field that can aggregates around molecular biologists neurophysiologists physicists psychophysicists and cognitive neuroscientists Our purpose is to present the frontier knowledge of this area of visual science showing in the end the future prospects of application and basic studies of color perception **Global Occupational Safety and Health Management Handbook** Thomas P. Fuller,2019-02-12 This book was written with the belief that everyone globally has the right to a safe and healthy workplace An 8 year old carrying bricks in the mid day sun in Nepal a pharmaceutical business executive on assignment in Bangladesh or a mother polishing stone in her home in Tanzania each

has a fundamental right to a workplace free from risk of injury illness and death Global Occupational Safety and Health Management Handbook is a broad presentation and discussion of the issues and obstacles facing the Occupational Safety and Health OSH profession today in providing safe workplaces globally Readers can use this book to find resources to assist in the development of their programs and to become informed about the basic structures of international OSH development and governance Readers can also rely on this book to become more aware of global OSH issues and problems that they may be personally or professionally willing and able to help address Seasoned OSH professionals can expect to learn about new ways to look at complicated and controversial topics Young professionals and students can read this book to better understand the important global OSH interrelationships and challenges of the future Features Serves as a one stop resource for information on important international safety and health topics and issues Provides detailed information about international OSH tripartite nongovernmental and professional organizations Describes the various global OSH educational and professional development needs and international approaches to expanding capacity and awareness of the profession Discusses controversial international OSH working conditions and explains their global impacts

Geological Carbon Storage

Stéphanie Vialle,Jonathan Ajo-Franklin,J. William Carey,2018-11-12 Geological Carbon Storage Subsurface Seals and Caprock Integrity Seals and caprocks are an essential component of subsurface hydrogeological systems guiding the movement and entrapment of hydrocarbon and other fluids Geological Carbon Storage Subsurface Seals and Caprock Integrity offers a survey of the wealth of recent scientific work on caprock integrity with a focus on the geological controls of permanent and safe carbon dioxide storage and the commercial deployment of geological carbon storage Volume highlights include Low permeability rock characterization from the pore scale to the core scale Flow and transport properties of low permeability rocks Fundamentals of fracture generation self healing and permeability Coupled geochemical transport and geomechanical processes in caprock Analysis of caprock behavior from natural analogues Geochemical and geophysical monitoring techniques of caprock failure and integrity Potential environmental impacts of carbon dioxide migration on groundwater resources Carbon dioxide leakage mitigation and remediation techniques Geological Carbon Storage Subsurface Seals and Caprock Integrity is an invaluable resource for geoscientists from academic and research institutions with interests in energy and environment related problems as well as professionals in the field

Handbook of

Differential Equations Daniel Zwillinger,Vladimir Dobrushkin,2021-12-30 Through the previous three editions Handbook of Differential Equations has proven an invaluable reference for anyone working within the field of mathematics including academics students scientists and professional engineers The book is a compilation of methods for solving and approximating differential equations These include the most widely applicable methods for solving and approximating differential equations as well as numerous methods Topics include methods for ordinary differential equations partial differential equations stochastic differential equations and systems of such equations Included for nearly every method are The types of equations

to which the method is applicable The idea behind the method The procedure for carrying out the method At least one simple example of the method Any cautions that should be exercised Notes for more advanced users The fourth edition includes corrections many supplied by readers as well as many new methods and techniques These new and corrected entries make necessary improvements in this edition

English Mechanic and World of Science ,1882 *Vaccine Hesitancy* Maya J. Goldenberg,2021-03-09 The public has voiced concern over the adverse effects of vaccines from the moment Dr Edward Jenner introduced the first smallpox vaccine in 1796 The controversy over childhood immunization intensified in 1998 when Dr Andrew Wakefield linked the MMR vaccine to autism Although Wakefield s findings were later discredited and retracted and medical and scientific evidence suggests routine immunizations have significantly reduced life threatening conditions like measles whooping cough and polio vaccine refusal and vaccine preventable outbreaks are on the rise This book explores vaccine hesitancy and refusal among parents in the industrialized North Although biomedical public health and popular science literature has focused on a scientifically ignorant public the real problem Maya J Goldenberg argues lies not in misunderstanding but in mistrust Public confidence in scientific institutions and government bodies has been shaken by fraud research scandals and misconduct Her book reveals how vaccine studies sponsored by the pharmaceutical industry compelling rhetorics from the anti vaccine movement and the spread of populist knowledge on social media have all contributed to a public mistrust of the scientific consensus Importantly it also emphasizes how historical and current discrimination in health care against marginalized communities continues to shape public perception of institutional trustworthiness Goldenberg ultimately reframes vaccine hesitancy as a crisis of public trust rather than a war on science arguing that having good scientific support of vaccine efficacy and safety is not enough In a fraught communications landscape Vaccine Hesitancy advocates for trust building measures that focus on relationships transparency and justice

Military Nuclear Accidents Jean-Claude Amiard,2018-11-26 The use of atomic energy for military purposes has given rise to a variety of nuclear accidents from the outset This applies to all levels of use from the manufacture of weapons to their commissioning This book provides an overview of the potential impact of such accidents The prospective consequences of local and global nuclear war are detailed Similarly for each accident the environmental ecological health and socio economic consequences are reviewed The contamination of the environment and its fauna and flora is detailed and the effects of ionizing radiation are reported The same is provided for human populations and the adverse effects on the health and physical and mental states of the populations concerned The economic cost of accidents is also evaluated The research presented in this book is based on scientifically recognized publications and reports from the military forces of the various countries concerned and from the national and international organizations competent in this field IAEA WHO UNSCEAR IRSN ICPR etc

Big Science, Innovation, and Societal Contributions Shantha Liyanage,Markus Nordberg,Marilena Streit-Bianchi,2024-03-12 Big Science Innovation and Societal Contributions offers a connection between Big Science and its

societal impacts from a multidisciplinary perspective drawing on physics and astrophysics scholars to explain the reasoning behind their work and how such knowledge can be applied to everyday life Through simplifying complex scientific concepts Big Science Innovation and Societal Contributions explains the evolution of Big Science experiments and what it takes to manage and maintain complex scientific experiments with a human centred approach Further it examines the motivations behind international efforts to develop capital intensive and human resource rich large scale multi national scientific investments to solve fundamental research problems concerning our future Drawing on reliable scientific evidence multi disciplinary perspectives and personal insights from collider physics detectors accelerator and telescopes research the volume outlines the mechanisms benefits and methodologies as well as the potential challenges and short comings of Big Science to learn and reflect on for future initiatives This is an open access title available under the terms of a CC BY NC ND 4 0 International licence It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations

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 *Physics Briefs*, 1990

The Dynamics of Science Grant Ramsey, Andreas De Block, 2022-11-22 Millions of scientific articles are published each year making it difficult to stay abreast of advances within even the smallest subdisciplines Traditional approaches to the study of science such as the history and philosophy of science involve closely reading a relatively small set of journal articles And yet many questions benefit from casting a wider net Is most scientific change gradual or revolutionary What are the key sources of scientific novelty Over the past several decades a massive effort to digitize the academic literature and equip computers with algorithms that can distantly read and analyze a digital database has taken us one step closer to answering these questions The Dynamics of Science brings together a diverse array of contributors to examine the largely unexplored computational frontiers of history and philosophy of science Together they reveal how tools and data from automated textual analysis or machine reading combined with methods and models from game theory and cultural evolutionary theory can begin to answer fundamental questions about the nature and history of science *Halt soil salinization, boost soil productivity* Food and Agriculture Organization of the United Nations, 2022-05-02 The book of proceedings of the GSAS21 contains the papers presented during the Global Symposium on Salt affected Soils that was held on 20 22 October 2022 The papers provide the up to date scientific knowledge and practical solutions for mapping assessment rehabilitation and sustainable management of saline and sodic soils as well as policy recommendations on actions needed to manage salt affected soils prevent soil degradation and to upscale good practices and technologies on these soils

Disrupt Science Mihai Nadin, 2023-11-18 Reaction to breakdowns is more expensive by many orders of magnitude than prevention This again became clear during the COVID 19 pandemic and is evinced in the sustainability crisis The dynamics of living matter transcends deterministic

reaction Embodied in machines determinism empowered the human being providing the path to prosperity However in conjunction with reductionism it does away with complexity in which life is couched The living is by necessity anticipatory Awareness of the future means preserving life not in reaction to but in anticipation of change Living entities from the simplest bacteria to plants and insects to human beings are adaptive goal oriented and capable of self healing Anticipatory actions are expressed through non deterministic processes that unfold in concert with reactions They engage the wholeness of life including its interactions with the environment Awareness of consequences together with memory of the past informs actions that reflect the creative nature of human beings Redefining science and implicitly medicine is not a negation of its past but rather an affirmation of trust in explaining life s capacity to renew itself As opposed to increasingly expensive medicine as a practice of repair to prevent and to heal is to make life sustainable The moment of truth can no longer be postponed At stake is the future of humankind and even of life on planet Earth Reductionist determinism informs the obsession with progress at any cost Awareness of the fact that the human condition transcends that of the matter in which it is embodied explains and indeed justifies the call to Disrupt Science in its current state The age of the digital machine in particular of artificial intelligence is one of opportunities that pale when compared to its inherent risks The record of breakdowns including so called natural disasters by now global in scale is part of the empirical premise for the call for completing the Cartesian Revolution A Second Revolution in Science could unleash humanity s remaking free of surrendering to want Science has the opportunity not only to measure everything life included and accumulate data and process it for its own sake but also to realize its meaning The book cover is designed by Baruch Gorkin who is celebrated internationally for exquisite typefaces and for books reflecting meaning driven design

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