

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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**Korbinian Moeller, Elise Klein, Klaus F
Willmes - von Hinckeldey, Karin Kucian**

Physical Science Grade10 September 2013:

Debates in Physical Education Susan Capel,Richard Blair,2019-12-06 This new and updated second edition of Debates in Physical Education explores issues physical education teachers encounter in their daily lives By engaging with both established and contemporary debates this volume challenges readers to think about and reflect on the relative validity of positions presented in order to develop their own reasoned and personal view in relation to the topics explored Divided into four accessible sections this book investigates and offers fresh insight into topics of central importance in physical education Chapters include for example Physical education as a means or as an end in itself Knowledge for physical education The physical education curriculum Assessment in physical education Technology pedagogy and physical education Physical education beyond schools and teachers Designed to stimulate discussion and support readers in their own research writing and practice Debates in Physical Education will be a valuable resource for any student or practising teacher engaged in initial teacher education continuing professional development or Master s level study

Numerical Development - From cognitive functions to neural underpinnings Korbinian Moeller,Elise Klein,Klaus F Willmes - von Hinckeldey,Karin Kucian,2015-02-24 Living at the beginning of the 21st century requires being numerate because numerical abilities are not only essential for life prospects of individuals but also for economic interests of post industrial knowledge societies Thus numerical development is at the core of both individual as well as societal interests There is the notion that we are already born with a very basic ability to deal with small numerosities Yet this often called number sense seems to be very restricted approximate and driven by perceptual constraints During our numerical development in formal e g school but also informal contexts e g family street we acquire culturally developed abstract symbol systems to represent exact numerosities in particular number words and Arabic digits refining our numerical capabilities In recent years numerical development has gained increasing research interest documented in a growing number of behavioural neuro scientific educational cross cultural and neuropsychological studies addressing this issue Additionally our understanding of how numerical competencies develop has also benefitted considerably from the advent of different neuro imaging techniques allowing for an evaluation of developmental changes in the human brain In sum we are now starting to put together a more and more coherent picture of how numerical competencies develop and how this development is associated with neural changes as well In the end this knowledge might also lead to a better understanding of the reasons for atypical numerical development which often has grievous consequences for those who suffer from developmental dyscalculia or mathematics learning disabilities Therefore this Research Topic deals with all aspects of numerical development findings from behavioural performance to underlying neural substrates from cross sectional to longitudinal evaluations from healthy to clinical populations To this end we included empirical contributions using different experimental methodologies but also theoretical contributions review articles or opinion papers

Science Education Research and Practice in Asia Mei-Hung Chiu,2016-06-10 This book discusses the

scope of science education research and practice in Asia It is divided into five sections the first consists of nine chapters providing overviews of science education in Asia China Lebanon Macau Malaysia Mongolia Oman Singapore Taiwan and Thailand The second section offers chapters on content analysis of research articles while the third includes three chapters on assessment and curriculum The fourth section includes four chapters on innovative technology in science education and the fifth section consists of four chapters on professional development and informal learning Each section also has additional chapters providing specific comments on the content This collection of works provides readers with a starting point to better understand the current state of science education in Asia

Proceedings of the 5th International Conference on Education for All (ICEDUALL 2024) Harun Joko Prayitno,Naufal Ishartono,Yasir Sidiq,Muhammad Syahriandi Adhantoro,2025-03-28

This is an open access book ICEDUALL short for the International Conference on Education for ALL is a prestigious international seminar dedicated to academics and experts passionate about the mission of providing education for all With a shared commitment to making quality education accessible to everyone ICEDUALL serves as a dynamic platform for thought provoking discussions innovative solutions and global collaboration At ICEDUALL we firmly believe that education is a fundamental human right that should be available to every individual regardless of their background or circumstances Our mission is to bring together educators researchers policymakers and practitioners from around the world to explore discuss and advance strategies for creating inclusive and equitable educational opportunities

Development of Student Understanding: Focus on Science Education Calvin S. Kalman,Mark Lattery,2020-01-21 ECGBL2014-8th European Conference on Games Based Learning Carsten Busch,2014-11-11

Pedagogical Cases in Physical Education and Youth Sport Kathleen Armour,2014-01-21 Pedagogical Cases in Physical Education and Youth Sport is a completely new kind of resource for students and practitioners working in physical education or youth sport The book consists of 20 richly described cases of individual young learners each written by a team of authors with diverse expertise from across the sport exercise and movement sciences These cases bring together knowledge from single sub disciplines into new interdisciplinary knowledge to inform best practice in physical education teaching and coaching in youth sport settings At the heart of each case is an individual young person of a specified age and gender with a range of physical social and psychological characteristics Drawing on current research theory and empirical data from their own specialist discipline each chapter author identifies the key factors they feel should be taken into account when attempting to teach or coach the young person described These strands are then drawn together at the end of each chapter and linked to current research from the sport pedagogy literature to highlight the implications for planning and evaluating teaching or coaching sessions No other book offers such a rich vivid and thought provoking set of pedagogical tools for understanding and working with children and young people in sport This is an essential resource for any student on a physical education coaching kinesiology or sport science course and for any teacher coach or instructor working in physical education or youth sport

Emigration in

21st-Century India S. Krishna Kumar, S. Irudaya Rajan, 2015-07-17 Emigration in 21st Century India is the first definitive exposition of contemporary Indian labour migration. The book provides a comprehensive appraisal of the policies, legislation and institutional architecture governing emigration at both federal and state levels. It posits that geographically, emigration is now a more inclusive pan-India phenomenon with many distinct features. It draws critical attention to the multiple dualities in Indian emigration, showing how the artificial distinction between a universal *pravasi* expatriate or migrant and a restricted *aam pravasi* common emigrant distorts emigration governance. On the basis of extensive data from the Kerala Migration Survey (KMS) and National Sample Survey Organisation (NSSO) Rounds, it projects the emerging profile of the emigrant from new source states as also the likely number of migrants by 2021, drawing cross-country comparisons where appropriate. The work will be invaluable to scholars of migration and diaspora studies, economics, development studies and sociology, as well as policy makers, administrators, academics and non-governmental organisations in the field. **Physico-chemical Aspects of**

Textile Coloration Stephen M. Burkinshaw, 2015-11-30 The production of textile materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products. As the great majority of such products are coloured predominantly using aqueous dyeing processes, the coloration of textiles is a large-scale global business in which complex procedures are used to apply different types of dye to the various types of textile material. The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico-chemical aspects of dye adsorption and the establishment of dyeing theory, which seeks to describe the mechanism by which dyes interact with textile fibres. *Physico-Chemical Aspects of Textile Coloration* provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural, man-made and synthetic fibres with the principal types of dye. The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing, dyeing as an area of study as well as the terminology employed in dyeing technology and science, contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level, fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption, detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres, polyester, polyamide, wool, polyacrylonitrile and silk fibres, non-aqueous dyeing as represented by the use of air, organic solvents and supercritical CO₂ fluid as alternatives to water as application medium. The up-to-date text is supported by a large number of tables, figures and illustrations as well as footnotes and widespread use of references to published work. The book is essential reading for students, teachers, researchers and professionals involved in textile coloration. The Age of STEM Brigid Freeman, Simon Marginson, Russell Tytler, 2014-10-24 Across the world, STEM learning and work in Science, Technology, Engineering and Mathematics has taken central importance in education and the economy in a way that few other disciplines have. STEM competence has become seen as

key to higher productivity technological adaptation and research based innovation No area of educational provision has a greater current importance than the STEM disciplines yet there is a surprising dearth of comprehensive and world wide information about STEM policy participation programs and practice The Age of STEM is a state of the art survey of the global trends and major country initiatives in STEM It gives an international overview of issues such as STEM strategy and coordination curricula teaching and assessment women in STEM indigenous students research training STEM in the graduate labour markets STEM breadth and STEM depth The individual chapters give comparative international analysis as well as a global overview particularly focusing on the growing number of policies and practices in mobilising and developing talent in the STEM fields The book will be of particular interest to anyone involved in educational policy those in education management and leaders in both schooling and tertiary education It will have a wider resonance among practitioners in the STEM disciplines particularly at university level and for those interested in contemporary public policy

Logic and Critical Thinking in the Biomedical Sciences Jules J. Berman, 2020-07-03 Science is not a collection of facts Science is the process by which we draw inferences from facts Volume I of Logic and Critical Thinking in the Biomedical Sciences invites readers to linger over a collection of common observations to see what inferences can be drawn when one applies a bit of deductive logic If we just think about what we observe it is often possible to discover profound biomedical insights Volumes 1 and 2 of Logic and Critical Thinking in the Biomedical Sciences are written for biomedical scientists and college level students engaged in any of the life sciences including bioinformatics and related data sciences Provides a strong introduction to deductive methods that can be directly applied to the biomedical sciences Using hundreds of examples shows how creative scientists draw important inferences from observations that are often ignored by their peers Discusses complex biological and medical concepts in a relaxed manner intended to focus the reader's attention on the deductive process without dwelling excessively on details

Emulsion-based Systems for Delivery of Food Active Compounds Shahin Roohinejad, Ralf Greiner, Indrawati Oey, Jingyuan Wen, 2018-06-18 A comprehensive text that offers a review of the delivery of food active compounds through emulsion based systems Emulsion based Systems for Delivery of Food Active Compounds is a comprehensive recourse that reviews the principles of emulsion based systems formation examines their characterization and explores their effective application as carriers for delivery of food active ingredients The text also includes information on emulsion based systems in regards to digestibility and health and safety challenges for use in food systems Each chapter reviews specific emulsion based systems Pickering multiple multilayered solid lipid nanoparticles nanostructured lipid carriers and more and explains their application for delivery of food active compounds used in food systems In addition the authors noted experts in the field review the biological fate bioavailability and the health and safety challenges of using emulsion based systems as carriers for delivery of food active compounds in food systems This important resource Offers a comprehensive text that includes detailed coverage of emulsion based systems for the delivery of food active compounds

Presents the most recent development in emulsion based systems that are among the most widely used delivery systems developed to control the release of food active compounds Includes a guide for industrial applications for example food and drug delivery is a key concern for the food and pharmaceutical industries Emulsion based Systems for Delivery of Food Active Compounds is designed for food scientists as well as those working in the food nutraceutical and pharmaceutical and beverage industries The text offers a comprehensive review of the essential elements of emulsion based systems for delivery of food active compounds

Spark a Revolution in Early Education Rae Pica,2022-11-22 Join the revolution in early childhood education Early childhood educators are facing a crucial inflection point in the profession Active learning for the whole child has been increasingly ignored by early childhood education decision makers Research shows that children need movement and play and joy to learn to their fullest potential yet the educational system pushes worksheets and takes away time outdoors among many other harmful and developmentally inappropriate teaching practices Educators everywhere are tired of witnessing unrealistic expectations and impossible attempts to accelerate child development stripping children of authentic learning and their giggles They are disturbed by the inequities that exist in education and want to see every child provided with the good foundation a quality early education can supply They are fed up with the nonsense depriving children of childhood requiring them to teach in ways that they know aren't right Without an understanding of child development guiding ECE policies children have lost their love of learning and play and face growing health issues This book challenges and inspires early childhood professionals to advocate for change in the field while giving them the research underpinnings and tools they need to take real action and bring back active play based learning for the development and education of the whole child Including chapters on debunking myths in early childhood education advocacy basics and strategies for speaking up it dispels the fears associated with speaking up and banishes all doubts about the need to advocate bravely and widely proving the need to change course and providing practical and actionable steps for speaking to decision makers and convincing them to pursue change Spark a Revolution in Early Education busts four myths earlier is better children learn by sitting digital devices are important to learning and play time is not productive time to push for Rae's Revolution and get educators everywhere to stand up for the children

Women in Mechanical Engineering Margaret Bailey,Laura Shackelford,2022-04-27 This book features influential scholarly research and technical contributions professional trajectories disciplinary shifts personal insights and a combination of these from a group of remarkable women within mechanical engineering Combined these chapters tell an important story about the dynamic field of mechanical engineering in the areas of energy and the environment as seen from the perspective of some of its most extraordinary women scientists and engineers The volume shares with the Women in Engineering and Science Series the primary aim of documenting and raising awareness of the valuable multi faceted contributions of women engineers and scientists past and present to these areas Women in mechanical engineering and energy and the environment are historically relevant and continue to lead these fields

as passionate risk takers entrepreneurs innovators educators and researchers Chapter authors are members of the National Academies winners of major awards and recognition that include Presidential Medals as well as SWE SAE ASME ASEE and IEEE Award winners and Fellows *Bioelectromagnetic and Subtle Energy Medicine* Davis Langdon,2014-12-19

Bioelectromagnetic and Subtle Energy Medicine focuses on a wide variety of evidence based bioelectromagnetic and subtle energy therapies for disorders ranging from cancer cardiomyopathy and Parkinson s disease to depression anxiety and pain Since publication of the first edition more than a decade ago there have been so many advances in these **Encyclopedia of Tissue Engineering and Regenerative Medicine** ,2019-06-03 Encyclopedia of Tissue Engineering and Regenerative Medicine Three Volume Set provides a comprehensive collection of personal overviews on the latest developments and likely future directions in the field By providing concise expositions on a broad range of topics this encyclopedia is an excellent resource Tissue engineering and regenerative medicine are relatively new fields still in their early stages of development yet they already show great promise This encyclopedia brings together foundational content and hot topics in both disciplines into a comprehensive resource allowing deeper interdisciplinary research and conclusions to be drawn from two increasingly connected areas of biomedicine Provides a one stop resource for access to information written by world leading scholars in the fields of tissue engineering and regenerative medicine Contains multimedia features including hyperlinked references and further readings cross references and diagrams images Represents the most comprehensive and exhaustive product on the market on the topic **Technological Innovation in Legacy Sectors** William B. Bonvillian,Charles Weiss,2015-08-18

The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don t head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its

innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S s still strong research oriented innovation system **Responsive Teaching in Science and Mathematics** Amy D.

Robertson,Rachel Scherr,David Hammer,2015-10-05 Answering calls in recent reform documents to shape instruction in response to students ideas while integrating key concepts and scientific and or mathematical practices this text presents the concept of responsive teaching synthesizes existing research and examines implications for both research and teaching Case studies across the curriculum from elementary school through adult education illustrate the variety of forms this approach to instruction and learning can take what is common among them and how teachers and students experience it The cases include intellectual products of students work in responsive classrooms and address assessment methods and issues Many of the cases are supplemented with online resources <http://www.studentsthinking.org/rtsm> including classroom video and extensive transcripts providing readers with additional opportunities to immerse themselves in responsive classrooms and to see for themselves what these environments look and feel like *Sedentary Behavior and Health* Zhu, Weimo,Owen,

Neville,2017-01-19 With research from leading scientists Sedentary Behavior and Health Concepts Assessments and Intervention presents evidence on sedentary behavior its apparent health risks and suggestions on measuring and altering this behavior **The Cambridge Handbook of the Learning Sciences** R. Keith Sawyer,2014-11-17 The interdisciplinary field of the learning sciences encompasses educational psychology cognitive science computer science and anthropology among other disciplines The Cambridge Handbook of the Learning Sciences is the definitive introduction to this innovative approach to teaching learning and educational technology This dramatically revised second edition incorporates the latest research in the field includes twenty new chapters on emerging areas of interest and features contributors who reflect the increasingly international nature of the learning sciences The authors address the best ways to design educational software prepare effective teachers organize classrooms and use the internet to enhance student learning They illustrate the importance of creating productive learning environments both inside and outside school including after school clubs libraries museums and online learning environments Accessible and engaging the Handbook has proven to be an essential resource for graduate students researchers teachers administrators consultants educational technology designers and policy makers on a global scale

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