

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)

Physical Science Paper1 Scope

Kathleen Armour



Physical Science Paper1 Scope:

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School Science and Mathematics ,1929 Developments in the Methodology of Social Science W. Leinfellner,Eckehart Köhler,2012-12-06 Philosophy of Science deals with the problem What is science It seems that the answer to this question can only be found if we have an answer to the question How does science function Thus the study of the methodology of social sciences is a prominent factor in any analysis of these sciences The history of philosophy shows clearly that the answer to the question How does science function was the conditio sine qua non of any kind of philosophy of science epistemology and even of logic Aristotle Hume Kant Mill Russell to mention a few classical authors clearly emphasized the primacy of methodology of science for any kind of philosophy of science One may even state that analyses of the presuppositions the foundations the aims goals and purposes of science are nothing else than analyses of their general and specific formal as well as practical and empirical methods Thus the whole program of any philosophy of science is dependent on the analysis of the methods of sciences and the establishment of their criteria If the study of scientific method is the predominant factor in the philosophy of science then all the other problems will depend on the outcome of such a study For example the old question of a possible unity of all social sciences will be brought to a solution by the study of the presuppositions the methods as well as of the criteria germane to all social sciences

Physics For B.Sc. Students Semester I: Paper 1 & 2 | Measurements, Mechanics and Properties of Matter | Kinetic Theory of Gases and Thermodynamics - NEP 2020 Maharashtra P S Hemne, SR Choubey, K Dabre, R Ukare, P Ambekar, C L Arora, This textbook is designed specifically for the B Sc Physics curriculum under the National Education Policy NEP in Maharashtra provides a comprehensive and solid foundation in classical physics

The chapters have been meticulously selected and structured to align with the educational objectives of fostering analytical thinking enhancing problem solving skills and cultivating a deep understanding of fundamental physical principles More than just a collection of theoretical concepts this textbook encourages students to apply these principles to real world situations Through a wealth of examples problems and exercises students are guided to develop a practical and profound understanding of physics preparing them for future academic and professional pursuits Whether you are a student aiming to excel in your studies or an educator seeking a reliable resource this textbook is an indispensable tool on the journey to mastering the fascinating world of physics

Metaphysics of Consciousness William Seager,2002-09-11 Metaphysics of Consciousness opens with a development of the physicalist outlook that denies the need for any explanation of the mental This inexplicability is demonstrated not to be sufficient as refutation of physicalism However the inescapable particularity of modes of consciousness appears to overpower this minimal physicalism This book proposes that such an inference requires either a wholly new conception of how consciousness is physical or a deep and disturbing new kind of physical inexplicability

Science Teaching in Schools Great Britain: Parliament: House of Lords: Science and Technology Committee,2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14-19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools

Nuclear Science Abstracts ,1976-05 Proceedings of the Cambridge Philosophical Society Cambridge Philosophical Society,1912 *Method in the Physical Sciences* G Schlesinger,2014-04-04 Originally published in 1963 Can one discern certain regularities in the manoeuvrings and techniques employed by scientists and can these be formulated into the methodological principles of science What is the origin and basis of such principles Are they imposed by objective realities do they derive from conceptual necessities or are they rooted in our own deep seated predilections This volume investigates these questions and sheds light on the growth mechanism of the evolving structure of science itself *Continuum Modeling in the Physical Sciences* E. van Groesen,Jaap Molenaar,2007-01-01 Mathematical modeling the ability to apply mathematical

concepts and techniques to real life systems has expanded considerably over the last decades making it impossible to cover all of its aspects in one course or textbook *Continuum Modeling in the Physical Sciences* provides an extensive exposition of the general principles and methods of this growing field with a focus on applications in the natural sciences The authors present a thorough treatment of mathematical modeling from the elementary level to more advanced concepts Most of the chapters are devoted to a discussion of central issues such as dimensional analysis conservation principles balance laws constitutive relations stability robustness and variational methods and are accompanied by numerous real life examples Readers will benefit from the exercises placed throughout the text and the challenging problems sections found at the ends of several chapters

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