

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

$$= 100 \times \frac{20}{3600} = 0.555 \text{ km}$$

$$= 555 \text{ m}$$

$$= 0.555 \text{ km}$$

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

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

$$= 72 \text{ seconds.}$$

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)

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Progress in Physics, vol. 1/2014 Dmitri Rabounski, Florentin Smarandache, Larissa Borissova, The Journal on Advanced Studies in Theoretical and Experimental Physics including Related Themes from Mathematics Special Warfare, 2013 **Physics Briefs**, 1994 Copyright and Patent Laws for the Age of Artificial Intelligence Eva Janecková, 2025-05-15 This book responds to the need to distinguish human creations from those produced by AI. It does so by tracing human attributes of authorship and inventorship in statutory requirements for protection and ownership in European copyright and patent laws. Its main contribution lies in exposing shortcomings in how the laws are applied in the UK, Germany and France. It shows that the human origin of creations is traditionally inferred from their expressive form or technical character. Given the advancements in AI, such inferences are no longer legitimate. What is more, these shortcomings may eventually lead to granting copyright or patent protection where none is lawfully permitted or sufficiently justified. To remedy the situation, this book offers doctrinal and conceptual amendments and proposes law reforms to implement them. This book guides authorities, practitioners and students through the main arguments of the debate concerning copyright and patents for objects entirely or partly generated by AI. It also makes original contributions to advance the ongoing academic and policy debates on AI and intellectual property law. **Yearbook of International Organizations 2014-2015, Volumes 1a & 1b (Set)** Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims, activities and events. **The British Nuclear Experience** John Baylis, Kristan Stoddart, 2014-12-18 Based on a detailed analysis of archives and high level interviews, this book looks at the role of beliefs, culture and identity in the making of British nuclear policy from 1945 through to the present day. This book also examines Britain's nuclear experience by moving away from traditional interpretations of why states develop and maintain nuclear weapons, by adopting a more contemporary approach to political theory. Traditional mainstream explanations tend to stress the importance of factors such as the maximization of power, the pursuit of national security interests and the role of structure in a largely anarchic international system. This book does not dismiss these approaches but argues that British experience suggests that focusing on beliefs, culture and identity provides a more useful insight and distinctive interpretation into the process of British nuclear decision making than the more traditional approaches. Superalloys 2024 Jonathan Cormier, Ian Edmonds, Stephane Forsik, Paraskevas Kontis, Corey O'Connell, Timothy Smith, Akane Suzuki, Sammy Tin, Jian Zhang, 2024-08-20 The 15th International Symposium on Superalloys. Superalloys 2024 highlights technologies for lifecycle improvement of superalloys. In addition to the traditional focus areas of alloy development, processing, mechanical behavior, coatings and environmental effects, this volume includes contributions from academia, supply chain and product user members of the superalloy community that highlight technologies that contribute to improving manufacturability, affordability, life prediction and performance of superalloys. Protecting Historic Architecture and Museum Collections from Natural

Disasters Barclay G. Jones, 2014-05-12 Protecting Historic Architecture and Museum Collections from Natural Disasters serves as a useful guide for professionals engaged in the preservation of cultural heritage whether structures or artifacts This book discusses how to prevent losses to the cultural heritage of structures and artifacts through more knowledgeable protection prevention and emergency response Organized into six sections encompassing 26 chapters this book begins with an overview of the mechanisms for preserving and protecting the heritage This text then examines the threats of destruction by the natural elements such as decay air pollution subsidence and other forms of attrition Other chapters consider the social functional and economic values of the buildings and museum objects This book discusses as well the natural disaster policies within a society The final chapter deals with the enlistment of the private sector in dealing with catastrophes rising out of fire earthquake flood and other natural disasters This book is a valuable resource for conservation specialists archivists private collectors dealers curators and librarians **Religion in the Anthropocene** Celia E. Deane-Drummond, Sigurd Bergmann, Markus Vogt, 2017-03-28 This book charts a new direction in humanities scholarship through serious engagement with the geopolitical concept of the Anthropocene Drawing on religious studies theology social science history and philosophy and can be broadly termed the environmental humanities this collection represents a groundbreaking critical analysis of diverse narratives on the Anthropocene The contributors to this volume recognize that the Anthropocene began as a geological concept the age of the humans but that its implications are much wider than this Will the Anthropocene have good or bad ethical outcomes Does the Anthropocene idea challenge the possibility of a sacred Nature which shores up many religious approaches to environmental ethics Or is the Anthropocene a secularized theological anthropology more properly dealt with through traditional concepts from Catholic social teaching on human ecology Do theological traditions such as Christology reinforce negative aspects of the Anthropocene Not all contributors in this volume agree with the answers to these different questions Readers will be challenged provoked and stimulated by this book American Universities and Colleges , 2014-10-08 No detailed description available for American Universities and Colleges

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