

Physics

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(Chapter 3) (Motion in a straight line) (Exercises)

(Class 11)

Total time taken in the whole journey = 30 + 20 = 50 min

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = \frac{2.4}{1} = 5 \text{ km/h} \quad \dots \text{(a(i))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{2.5}{1} = 5 \text{ km/h} \quad \dots \text{(b(i))}$$

$$\text{Time} = 50 \text{ min} = \frac{5}{6} \text{ h}$$

Net displacement = 0

Total distance = 2.5 + 2.5 = 5 km

$$\text{Average velocity} = \frac{\text{Displacement}}{\text{Time}} = 0 \quad \dots \text{(a(ii))}$$

$$\text{Average speed} = \frac{\text{Distance}}{\text{Time}} = \frac{5}{6} = 6 \text{ km/h} \quad \dots \text{(b(ii))}$$

Speed of the man = 7.5 km/h

Distance travelled in first 30 min = 2.5 km

Distance travelled by the man (from market to home) in the next 10 min

$$= 7.5 \times \frac{10}{60} = 1.25 \text{ km}$$

Net displacement = 2.5 - 1.25 = 1.25 km

Total distance travelled = 2.5 + 1.25 = 3.75 km

$$\text{Average velocity} = \frac{1.25}{\left(\frac{40}{60}\right)} = \frac{1.25 \times 3}{2} = 1.875 \text{ km/h} \quad \dots \text{(a(iii))}$$

$$\text{Average speed} = \frac{3.75}{\left(\frac{40}{60}\right)} = 5.625 \text{ km/h} \quad \dots \text{(b(iii))}$$

Question 3.15:

In Exercises 3.13 and 3.14, we have carefully distinguished between average speed and magnitude of average velocity. No such distinction is necessary when we consider instantaneous speed and magnitude of velocity. The instantaneous speed is always equal to the magnitude of instantaneous velocity. Why?

Answer 3.15:

Instantaneous velocity is given by the first derivative of distance with respect to time i.e.,

$$V_{\text{in}} = \frac{dx}{dt}$$

Here, the time interval dt is so small that it is assumed that the particle does not change its direction of motion. As a result, both the total path length and magnitude of displacement become equal in this interval of time.

Therefore, instantaneous speed is always equal to instantaneous velocity.

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Mastering Physics Solutions Chapter 3

Daniel F McAuley



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Mathematical Reviews, 2003 **Essential University Physics** Richard Wolfson, 2007 Richard Wolfson

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Chemical Master Equation for Large Biological Networks, Don Kulasiri, Rahul Kosarwal, 2021-09-12. This book highlights the theory and practical applications of the chemical master equation (CME) approach for very large biochemical networks which provides a powerful general framework for model building in a variety of biological networks. The aim of the book is to not only highlight advanced numerical solution methods for the CME but also reveal their potential by means of practical examples. The case studies presented are mainly from biology however the applications from novel methods are discussed comprehensively underlining the interdisciplinary approach in simulation and the potential of the chemical master equation approach for modelling bionetworks. The book is a valuable guide for researchers, graduate students and professionals alike.

Physics for Scientists and Engineers, Richard Wolfson, Jay M. Pasachoff, 1999. This book emphasizes the conceptual unity of physics.

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Physics with Modern Physics for Scientists and Engineers Richard Wolfson, Jay M. Pasachoff, 1999

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Finite Elements 1-2-3 A. J. Baker, Darrell W. Pepper, 1991 This text is intended for the student who is being introduced for the first time to the Finite Element Method FEM Written in a simple easy to follow manner the book is a practical guide for learning the basics of the method and applying them to a wide variety of problems The book focuses on the practical applications of fundamental concepts with special emphasis on fluid mechanics Computational experiments are integrated throughout the text via example problems and exercises A comprehensive finite element instructional computer code written for the PC using standard FORTRAN 77 is used to support every basic step and solve the set of example problems The coverage of numerical linear algebra presents a unique numerical scheme based on continuing finite element finite difference methodologies

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web voiceless when the vocal folds are wide apart and not vibrating consonants are voiceless for example the consonant sounds of p t and s voiced when the vocal folds are close together and vibrating consonants are voiced for example the consonant sounds of b d and z

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