

# 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

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

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

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

$$\text{Net displacement} = 0$$

$$\text{Total distance} = 2.5 + 2.5 = 5 \text{ km}$$

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

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

$$\text{Speed of the man} = 7.5 \text{ km/h}$$

$$\text{Distance travelled in first 30 min} = 2.5 \text{ km}$$

$$\text{Distance travelled by the man (from market to home) in the next 10 min}$$

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

$$\text{Net displacement} = 2.5 - 1.25 = 1.25 \text{ km}$$

$$\text{Total distance travelled} = 2.5 + 1.25 = 3.75 \text{ km}$$

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

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

## 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.

# Mastering Physics Chapter 3

**James L. Flowers, Theodore Silver**



### Mastering Physics Chapter 3:

*Laser Man* Edwin Brit Wyckoff,2007-09-01 A biography of Theodore H Maiman the engineer who invented the laser

*The Man Who Invented the Laser* Edwin Brit Wyckoff,2013-07-01 Maiman was a graduate of the University of Colorado which awarded him a B S in engineering physics in 1949 Later he received his Ph D in physics in 1955 from Stanford University and began work at the Hughes Research Laboratory HRL There he concentrated on creating a device capable of converting mixed frequency electromagnetic radiation into highly amplified and coherent light of discrete frequency Maiman later found that the accepted calculations of the fluorescence quantum efficiency of ruby were wrong and that the material could be used for his research His persistence with ruby eventually paid off for on May 16 1960 the device he built using it became the world s first operable laser

*Unity 6 Game Development with C# Scripting* Lem Apperson,2025-02-14 No detailed description available for Unity 6 Game Development with C Scripting

[Quantum Information and Consciousness](#) Danko D. Georgiev,2017-12-06 I loved the book This book is not just interesting it is exciting I have probably read every significant book in the field and this is the strongest and most convincing one yet It is also one of the most comprehensive in its explanations I shall most certainly recommend the book to colleagues Richard G Petty MD a very good introduction to the basic theory of quantum systems Dr Georgiev s book aptly prepares the reader to confront whatever might be in store later from the Foreword by Prof James F Glazebrook Eastern Illinois University This book addresses the fascinating cross disciplinary field of quantum information theory applied to the study of brain function It offers a self study guide to probe the problems of consciousness including a concise but rigorous introduction to classical and quantum information theory theoretical neuroscience and philosophy of the mind It aims to address long standing problems related to consciousness within the framework of modern theoretical physics in a comprehensible manner that elucidates the nature of the mind body relationship The reader also gains an overview of methods for constructing and testing quantum informational theories of consciousness

**Mastering Rebreathers** Jeffrey E. Bozanic,2002      **Practical Ultrasound in Anesthesia for Critical Care and Pain Management** Philip M Hopkins,Massimo Lamperti,Clara A Lobo,2025-10-06 This new revised edition reflects the latest advances in clinical practice It remains an indispensable reference that covers essential and debated aspects of ultrasound for the practising anaesthetist such as big vascular access frontal neck access nerve blocks and gastric evaluation It presents the important clinical topics where ultrasound can guide an anaesthetist offers a practical and reliable guide to often debated aspects of clinical practice and provides an authoritative resource for the anaesthetist working in critical care and pain management

[The Mechanical Universe](#) Richard P. Olenick,Tom M. Apostol,David L. Goodstein,1985-08-30 This book studies electricity and magnetism light the special theory of relativity and modern physics

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improve results in terms of productivity and resources Bill Fierle Vice President and General Manager TopWorx Emerson Brings powerful accessible science to operations management The Factory Physics playbook enables me to lead the harnessing of our data more effectively for modeling planning control and feedback Armed with the concepts common language and tools in this book I can partner with operations leadership to impact the bottom line Jeffrey Korman CIO Hu Friedy Mfg LLC Chicago

**Mastering Self-leadership** Christopher P. Neck, Charles C. Manz, 2007 This brief inexpensive paperback on self management is a guide for self help that uses solid research and proven principles Powerful advice and tools emphasize the following idea first learn to lead yourself and then you will be in a solid position to effectively lead others Mastering Self Leadership explores methods for achieving personal goals using self assessment self reward self talk mental imagery teamthink and other cutting edge concepts An excellent resource for sales managers department heads team leaders and others in leadership positions

Mastering Data Modeling John Vincent Carlis, Joseph D. Maguire, 2001 Carlis computer science U of Minnesota and Maguire a program manager for Microsoft explain to information systems analysts and database developers how to become a successful data modeler Using their own Logical Data Structure for the data modeling notation they describe in detail the process for collecting modeling and documenting data structures and flow They also analyze all data shapes and provide several recipes for applying them They provide no bibliographic references Annotation copyrighted by Book News Inc Portland OR

**Mastering the Essentials of E-Learning** Ryan Watkins, 2004

**The Princeton Review Flowers Complete Preparation for the MCAT, 1996** James L. Flowers, Theodore Silver, 1995-09-26 The MCAT prep program developed by Dr James Flowers is now available from The Princeton Review Rather than focusing merely on strategies this guide includes exercises to strengthen scientific problem solving skills and an organized system for learning the tested material

**Intermediate Physics for Medicine and Biology** Russell K. Hobbie, 1988 This text is specifically designed to provide students of medicine and biology with a treatment of physics related to their fields of study Assuming a basic understanding of physics it develops ideas from first principles using calculus and statistics when necessary but avoiding complex mathematics Coverage includes translational and rotational equilibrium with a description of the forces in the hip joint as a clinical example exponential growth and decay giving examples from pharmacology and physiology nuclear physics and medical applications X ray production and their biological effects diffusion and transport of solute in an infinite medium and much more Most chapters have been revised and new material has been added on charged membranes biomagnetism image reconstruction and magnetic resonance imaging The text also contains computer programs on numerical integrations Fourier series and image reconstruction

**Physics Insights** Wan Yong Loo, 2000

**Children's Books in Print, 2007**, 2006

**Physics** Eugene Hecht, 1996 While the text covers the standard range of material from kinematics to quantum physics Hecht has carefully limited the math required to basic calculus and very basic vector analysis He omits obscure high level topics while focusing on helping students understand the fundamental concepts of modern day

physics Calculus and vector analysis are both painstakingly developed as tools and then used only insofar as they illuminate the physics Hecht deliberately goes slowly justifies where each topic is going stops to take stock of where the students have been and points out the marvelous unity of the discourse Informed by a 20th century perspective and a commitment to providing a conceptual overview of the discipline this book is a return to basics

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 $\text{BaSO}_4 + \text{Na}_2\text{CO}_3 \rightarrow \text{BaCO}_3 + \text{Na}_2\text{SO}_4$   
 $\text{AgNO}_3 + \text{NaCl} \rightarrow \text{AgCl} + \text{NaNO}_3$   
 $\text{Pb(NO}_3)_2 + \text{Na}_2\text{S} \rightarrow \text{PbS} + \text{NaNO}_3$

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