

# Physics

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## (Chapter 4) (Laws of Motion) (Exercises) (Class 11)

### Question 4.7:

A body of mass 5 kg is acted upon by two perpendicular forces 8 N and 6 N. Give the magnitude and direction of the acceleration of the body.

### Answer 4.7:

Mass of the body,  $m = 5 \text{ kg}$

The given situation can be represented as follows:

The resultant of two forces is given as:

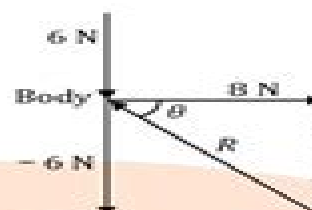
$$R = \sqrt{(8)^2 + (-6)^2} = \sqrt{64 + 36} = 10 \text{ N}$$

$\theta$  is the angle made by  $R$  with the force of 8 N

$$\therefore \theta = \tan^{-1} \left( \frac{-6}{8} \right) = -36.87^\circ$$

The - sign indicates that  $\theta$  is in the clockwise direction with respect to the force of magnitude 8 N. As per Newton's second law of motion, the acceleration ( $a$ ) of the body is given as:  $F = ma$

$$\therefore a = \frac{F}{m} = \frac{10}{5} = 2 \text{ m/s}^2$$



### Question 4.8:

The driver of a three-wheeler moving with a speed of 36 km/h sees a child standing in the middle of the road and brings his vehicle to rest in 4.0 s just in time to save the child. What is the average retarding force on the vehicle? The mass of the three-wheeler is 400 kg and the mass of the driver is 65 kg.

### Answer 4.8:

Initial speed of the three-wheeler,  $u = 36 \text{ km/h}$ , Final speed of the three-wheeler,  $v = 0 \text{ m/s}$

Time,  $t = 4 \text{ s}$

Mass of the three-wheeler,  $m = 400 \text{ kg}$  and

Mass of the driver,  $m' = 65 \text{ kg}$

Total mass of the system,  $M = 400 + 65 = 465 \text{ kg}$

By the first law of motion, the acceleration of the three-wheeler can be calculated as:

$$v = u + at$$

$$\therefore a = \frac{v - u}{t} = \frac{0 - 10}{4} = -2.5 \text{ m/s}^2$$

The negative sign indicates that the velocity of the three-wheeler is decreasing with time.

Using Newton's second law of motion, the net force acting on the three-wheeler can be calculated as:  $F = Ma = 465 \times (-2.5) = -1162.5 \text{ N}$

The negative sign indicates that the force is acting against the direction of motion of the three-wheeler.

### Question 4.9:

A rocket with a lift-off mass 20,000 kg is blasted upwards with an initial acceleration of  $5.0 \text{ m/s}^2$ . Calculate the initial thrust (force) of the blast.

### Answer 4.9:

Mass of the rocket,  $m = 20,000 \text{ kg}$  and

Initial acceleration,  $a = 5 \text{ m/s}^2$

Acceleration due to gravity,  $g = 10 \text{ m/s}^2$

Using Newton's second law of motion, the net force (thrust) acting on the rocket is given by the relation:  $F - mg = ma$

$$F = m(g + a) = 20000 \times (10 + 5) = 20000 \times 15 = 3 \times 10^5 \text{ N}$$

# Mastering Physics Solutions Chapter 4

**Charles Alpheus Bennett, William  
Thomas Bawden**



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**Understand Physics: Teach Yourself** Jim Breithaupt, 2010-02-26 Brilliant book well written and easy to follow along with Reader review Highly recommended a handy reference guide Reader review Essential for those wishing to understand long forgotten science classes Reader review All you need for a clear understanding of physics Physics does not have to be daunting This book complete with practice questions and answers forms a course which will take you from beginner or intermediate level to having a confident grasp of physics The book includes simple step by step explanations to help you grasp new topics or those that have previously confused you practice questions throughout to help you embed your learning and improve your confidence and end of chapter summaries to help you remember the key points you've learnt all in one great value book so you don't need any separate workbooks or coursebooks Chapters include Starting physics motion forces in action thermal physics engines and thermodynamics electricity the nature of light materials and molecules quantum theory and relativity the structure of matter nuclear energy space and the universe and the frontiers of physics ABOUT THE SERIES The Complete Introduction series from Teach Yourself is the ultimate one stop guide for anyone wanting a comprehensive and accessible entry point into subjects as diverse as philosophy mathematics psychology economics and practical electronics Loved by students and perfect for general readers who simply want to learn more about the world around them these books are your first choice for discovering something new

*Modelling with the Master Equation* Günter Haag, 2017-07-31 This book presents the theory and practical applications of the Master equation approach which provides a powerful general framework for model building in a variety of disciplines The aim of the book is to not only highlight different mathematical solution methods but also reveal their potential by means of practical examples Part I of the book which can be used as a toolbox introduces selected statistical fundamentals and solution methods for the Master equation In Part II and Part III the Master equation approach is applied to important applications in the natural and social sciences The case studies presented mainly hail from the social sciences including urban and regional dynamics population dynamics dynamic decision theory opinion formation and traffic dynamics however some applications from physics and chemistry are treated as well underlining the interdisciplinary modelling potential of the Master equation approach Drawing upon the author's extensive teaching and research experience and consulting work the book offers a valuable guide for researchers graduate students and professionals alike

**Concise Optics** Ajawad I. Haija, M. Z. Numan, W. Larry Freeman, 2018-02-21 This introductory text is a reader friendly treatment of geometrical and physical optics emphasizing problems and solved examples with detailed analysis and helpful commentary The authors are seasoned educators with decades of experience teaching optics Their approach is to gradually present mathematics explaining the physical concepts It covers ray tracing to the wave nature of light and introduces Maxwell's equations in an organic fashion The text then moves on to explain how to analyze simple optical systems such as spectacles for improving vision microscopes and telescopes while also being exposed to

contemporary research topics Ajawad I Haija is a professor of physics at Indiana University of Pennsylvania M Z Numan is professor and chair of the department of physics at Indiana University of Pennsylvania W Larry Freeman is Emeritus Professor of Physics at Indiana University of Pennsylvania The Captains of Energy Vincent C. Prantil, Timothy Decker, 2022-05-31 In teaching an introduction to transport or systems dynamics modeling at the undergraduate level it is possible to lose pedagogical traction in a sea of abstract mathematics What the mathematical modeling of time dependent system behavior offers is a venue in which students can be taught that physical analogies exist between what they likely perceive as distinct areas of study in the physical sciences We introduce a storyline whose characters are superheroes that store and dissipate energy in dynamic systems Introducing students to the overarching conservation laws helps develop the analogy that ties the different disciplines together under a common umbrella of system energy In this book we use the superhero cast to present the effort flow analogy and its relationship to the conservation principles of mass momentum energy and electrical charge We use a superhero movie script common to mechanical electrical fluid and thermal engineering systems to illustrate how to apply the analogy to arrive at governing differential equations describing the systems behavior in time Ultimately we show how only two types of differential equation and therefore two types of system response are possible This novel approach of storytelling and a movie script is used to help make the mathematics of lumped system modeling more approachable for students Table of Contents Preface Acknowledgments If You Push It It Will Flow Governing Dynamics The Electrical Cast The Mechanical Cast A Common Notion Going Nowhere The Fluid and Thermal Casts Summary Afterword Bibliography Authors Biographies **Essential University Physics** Richard Wolfson, 2007 Richard Wolfson sEssential University Physics is a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physics is a compelling alternative for professors who want to focus on the fundamentals Doing Physics 1 Mechanics Motion in a Straight Line Motion in Two and Three Dimensions Force and Motion Using Newton s Laws Work Energy and Power Conservation of Energy Gravity Systems of Particles Rotational Motion Rotational Vectors and Angular Momentum Static Equilibrium Part 2 Oscillations Waves and Fluids Oscillatory Motion Wave Motion Fluid Motion Thermodynamics Temperature and Heat The Thermal Behavior of Matter Heat Work and the First Law of Thermodynamics The Second Law of Thermodynamics For all readers interested in calculus based physics Applications of Differential Equations in Engineering and Mechanics Kam Tim Chau, 2019-01-08 This second of two comprehensive reference texts on differential equations continues coverage of the essential material students they are likely to encounter in solving engineering and mechanics problems across the field alongside a preliminary volume on theory This book covers a very broad range of problems including beams and columns plates shells structural dynamics catenary and cable suspension bridge nonlinear buckling transports and waves in fluids geophysical fluid flows nonlinear waves and solitons Maxwell

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