

Physics

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

Question 4.1:

Give the magnitude and direction of the net force acting on

- (a) a drop of rain falling down with a constant speed,
- (b) a cork of mass 10 g floating on water,
- (c) a kite skillfully held stationary in the sky,
- (d) a car moving with a constant velocity of 30 km/h on a rough road,
- (e) a high-speed electron in space far from all material objects, and free of electric and magnetic fields.

Answer 4.1:

- (a) Zero net force
The rain drop is falling with a constant speed.
Hence, its acceleration is zero. As per Newton's second law of motion, the net force acting on the rain drop is zero.
- (b) Zero net force
The weight of the cork is acting downward. It is balanced by the buoyant force exerted by the water in the upward direction.
Hence, no net force is acting on the floating cork.
- (c) Zero net force
The kite is stationary in the sky, i.e., it is not moving at all.
Hence, as per Newton's first law of motion, no net force is acting on the kite.
- (d) Zero net force
The car is moving on a rough road with a constant velocity.
Hence, its acceleration is zero. As per Newton's second law of motion, no net force is acting on the car.
- (e) Zero net force
The high speed electron is free from the influence of all fields.
Hence, no net force is acting on the electron.

Question 4.2:

A pebble of mass 0.05 kg is thrown vertically upwards. Give the direction and magnitude of the net force on the pebble.

- (a) during its upward motion,
- (b) during its downward motion,
- (c) at the highest point where it is momentarily at rest. Do your answers change if the pebble was thrown at an angle of 45° with the horizontal direction?
Ignore air resistance.

Answer 4.2:

0.5 N, in vertically downward direction, in all cases.

Acceleration due to gravity, irrespective of the direction of motion of an object, always acts downward. The gravitational force is the only force that acts on the pebble in all three cases. Its magnitude is given by Newton's second law of motion as: $F = m \times a$

Where, F = net force and m = Mass of the pebble = 0.05 kg

$$a = g = 10 \text{ m/s}^2$$

$$\therefore F = 0.05 \times 10 = 0.5 \text{ N}$$

The net force on the pebble in all three cases is 0.5 N and this force acts in the downward direction.

If the pebble is thrown at an angle of 45° with the horizontal, it will have both the horizontal and vertical components of velocity. At the highest point, only the vertical component of velocity becomes zero. However, the pebble will have the horizontal component of velocity throughout its motion. This component of velocity produces no effect on the net force acting on the pebble.

Chapter 4 Physics

Puja Mehta



Chapter 4 Physics:

An Introduction to Atmospheric Physics Robert G. Fleagle, Joost A. Businger, 1981-01-09 This book is addressed to those who wish to understand the relationship between atmospheric phenomena and the nature of matter as expressed in the principles of physics The interesting atmospheric phenomena are more than applications of gravitation of thermodynamics of hydrodynamics or of electrodynamics and mastery of the results of controlled experiment and of the related theory alone does not imply an understanding of atmospheric phenomena This distinction arises because the extent and the complexity of the atmosphere permit effects and interactions that are entirely negligible in the laboratory or are deliberately excluded from it the objective of laboratory physics is by isolating the relevant variables to reveal the fundamental properties of matter whereas the objective of atmospheric physics or of any observational science is to understand those phenomena that are characteristic of the whole system For these reasons the exposition of atmospheric physics requires substantial extensions of classical physics It also requires that understanding be based on a coherent way of seeing the ensemble of atmospheric phenomena Only then is understanding likely to stimulate still more general insights

Atmosphere, Ocean and Climate Dynamics John Marshall, R. Alan Plumb, 1963-01-01 For advanced undergraduate and beginning graduate students in atmospheric oceanic and climate science Atmosphere Ocean and Climate Dynamics is an introductory textbook on the circulations of the atmosphere and ocean and their interaction with an emphasis on global scales It will give students a good grasp of what the atmosphere and oceans look like on the large scale and why they look that way The role of the oceans in climate and paleoclimate is also discussed The combination of observations theory and accompanying illustrative laboratory experiments sets this text apart by making it accessible to students with no prior training in meteorology or oceanography Written at a mathematical level that is appealing for undergraduates and beginning graduate students Provides a useful educational tool through a combination of observations and laboratory demonstrations which can be viewed over the web Contains instructions on how to reproduce the simple but informative laboratory experiments Includes copious problems with sample answers to help students learn the material

Resources in Education, 1970-07 Thomas Aquinas Christopher Martin, 2019-08-05 This path breaking approach to Thomas Aquinas interprets the Five Ways in the context of his theory of science Aquinas is the leading medieval philosopher and his work is of continuing contemporary relevance Addressing all the critical themes of authority and reason Christopher Martin examines the role of science and definitions in medieval thought and how to deal with the big question is there a God Rigorous and challenging Martin's clear exposition compares and contrasts Aquinas arguments with those of other philosophers Anselm Descartes and Kant

Research in Education, 1970-12 Aristotle's Metaphysics Aristotle, 1924 *Engineering Journal*, 1930 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 The Journal of the Engineering Institute of Canada Engineering Institute of Canada, 1930 *Collected Works of V. I. Lenin: Materialism and empirio-criticism [2d ed*

Vladimir Il'ich Lenin,1927 **Collected Works of V.I. Lenin: Materialism and empirio-criticism** Vladimir Il'ich
Lenin,1927 *The Importance of the Use of Algebra to High School Students* Marjorie McLeod Miller,1918 Gas Age
,1899 Includes summaries of proceedings and addresses of annual meetings of various gas associations L C set includes an
index to these proceedings 1884 1902 issued as a supplement to Progressive age Feb 15 1910 **Statistical Mechanics,**
Fluctuations, and Noise Arnold Hugh William Beck,1976 **Thought and Expression in the Sixteenth Century** Henry
Osborn Taylor,1920 **Bulletin of the American Mathematical Society** American Mathematical Society,1928 **Sigma**
Phi Epsilon Journal Sigma Phi Epsilon,1930 *Great Books of the Western World: The great ideas* Robert Maynard
Hutchins,1952 For contents see Title Catalog *The Theosophist* ,1928 Natural Philosophy in Some Early Seventeenth
Century Scholastic Textbooks M. Richard Reif,1980 **Journal** New South Wales. Parliament. Legislative Council,1883

Chapter 4 Physics: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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