

Physics

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

Question 4.20:

A batsman deflects a ball by an angle of 45° without changing its initial speed which is equal to 54 km/h . What is the impulse imparted to the ball? (Mass of the ball is 0.15 kg .)

Answer 4.20:

The given situation can be represented as shown in the following figure.

Where, AO = Incident path of the ball

OB = Path followed by the ball after deflection

$\angle AOB$ = Angle between the incident and deflected paths of the ball

$= 45^\circ$

$\angle AOP = \angle BOP = 22.5^\circ = \theta$

Initial and final velocities of the ball = v

Horizontal component of the initial velocity = $v \cos \theta$ along RO

Vertical component of the initial velocity = $v \sin \theta$ along PO

Horizontal component of the final velocity = $v \cos \theta$ along OS

Vertical component of the final velocity = $v \sin \theta$ along OP

The horizontal components of velocities suffer no change. The vertical components of velocities are in the opposite directions.

\therefore Impulse imparted to the ball = Change in the linear momentum of the ball

$= mv \cos \theta - (-mv \cos \theta) = 2mv \cos \theta$

Mass of the ball, $m = 0.15 \text{ kg}$

Velocity of the ball, $v = 54 \text{ km/h} = 15 \text{ m/s}$

\therefore Impulse = $2 \times 0.15 \times 15 \cos 22.5^\circ = 4.16 \text{ kg m/s}$

Question 4.21:

A stone of mass 0.25 kg tied to the end of a string is whirled round in a circle of radius 1.5 m with a speed of 40 rev/min in a horizontal plane. What is the tension in the string? What is the maximum speed with which the stone can be whirled around if the string can withstand a maximum tension of 200 N ?

Answer 4.21:

Mass of the stone, $m = 0.25 \text{ kg}$

Radius of the circle, $r = 1.5 \text{ m}$

Number of revolution per second,

$$n = \frac{40}{60} = \frac{2}{3} \text{ rps}$$

Angular velocity, $\omega = v/r = 2\pi n \dots (i)$

The centripetal force for the stone is provided by the tension T , in the string, i.e., $T = F_{\text{centripetal}}$

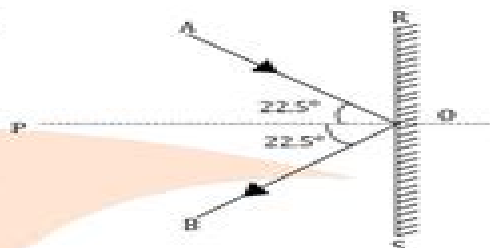
$$= \frac{mv^2}{r} = mr(i)^2 = mr(2\pi n)^2 = 0.25 \times 1.5 \times \left(2 \times 3.14 \times \frac{2}{3}\right)^2 = 65 \text{ N}$$

Maximum tension in the string, $T_{\text{max}} = 200 \text{ N}$

$$T_{\text{max}} = \frac{mv_{\text{max}}^2}{r}$$

$$\therefore V_{\text{max}} = \sqrt{\frac{T_{\text{max}} \times r}{m}} = \sqrt{\frac{200 \times 1.5}{0.25}} = \sqrt{1200} = 34.64 \text{ m/s}$$

Therefore, the maximum speed of the stone is 34.64 m/s .



Conceptual Physics 11th Edition Chapter 4 Answers

Paul G. Hewitt



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examples and exercises Passive and Active Solar Heating Technology Michael Meltzer,1985 **Physics** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006 *Unified Field Mechanics: Natural Science Beyond The Veil Of Spacetime - Proceedings Of The IX Symposium Honoring Noted French Mathematical Physicist Jean-pierre Vigier* Richard L Amoroso,Louis H Kauffman,Peter Rowlands,2015-09-08 Unified Field Mechanics the topic of the 9th international symposium honoring noted French mathematical physicist Jean Pierre Vigier cannot be considered highly speculative as a myopic critic might surmise The 8th Vigier Symposium proceedings The Physics of Reality should in fact be touted as a companion volume because of its dramatic theoretical Field Mechanics in additional dimensionality Many still consider the Planck scale zero point field stochastic quantum foam as the basement of reality This could only be considered true under the limitations of the Copenhagen interpretation of quantum theory As we enter the next regime of Unified Field Mechanics we now know that the energy dependent Einstein Minkowski manifold called spacetime has a finite radius beyond which a large scale multiverse beckons So far a battery of 14 experiments has been designed to falsify the model When the 1st is successfully performed a revolution in Natural Science will occur This volume strengthens and expands the theoretical and experimental basis for that immanent new age *Fundamentals of Physics* David Halliday,1993 Student Study Guide & Selected Solutions Manual David D. Reid,2007 **Modern Physics for Scientists and Engineers** Stephen T. Thornton,Andrew F. Rex,2006 In addition to featuring the latest discoveries MODERN PHYSICS presents a contemporary and comprehensive approach to physics with a strong emphasis on applications The authors discuss the experiments that led to key discoveries in order to illustrate the process behind scientific advances and to give students a historical perspective The text features a flexible organization that allows instructors to select and teach topics in a preferred sequence without compromising the student s learning experience A sound theoretical foundation in quantum theory is included to help physics majors succeed in their upper division courses *Fundamentals of Physics, , Chapters 23 to 49* David Halliday,Robert Resnick,Jearl Walker,1993-09-13 This historic book may have numerous typos and missing text Purchasers can usually download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1888 edition Excerpt apparel and sought and obtained employment as a teamster in the quartermasters department Her features were very large and so coarse and masculine was her general appearance that she would readily have passed as a man and in her case the deception was no doubt easily practiced Next day the she dragoon was caught and proved to be a rather prepossessing young woman and though necessarily bronzed and hardened by exposure I doubt if even with these marks of campaigning she could have deceived as readily as did her companion How the two got acquainted I never learned and though they had joined the army independently of each other yet an intimacy had sprung up between them long before the mishaps of the foraging expedition They both were forwarded to army headquarters and when provided with clothing suited to their sex sent back to Nashville and thence beyond our lines to Louisville On January 9 by an order from the War Department the Army of the Cumberland

had been divided into three corps designated the Fourteenth Twentieth and Twenty first This order did not alter the composition of the former grand divisions nor change the commanders but the new nomenclature was a decided improvement over the clumsy designations Right Wing Centre and Left Wing which were well calculated to lead to confusion sometimes McCooks wing became the Twentieth Corps and my division continued of the same organization and held the same number as formerly the Third Division Twentieth Corps My first brigade was now commanded by Brigadier General William H Lytle the second by Colonel Bernard Laiboldt and the third by Colonel Luther P Bradley On the 4th of March I was directed to move in light marching order toward Franklin and *Subject Guide to Books in Print* ,1991

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Table of Contents Conceptual Physics 11th Edition Chapter 4 Answers

1. Understanding the eBook Conceptual Physics 11th Edition Chapter 4 Answers
 - The Rise of Digital Reading Conceptual Physics 11th Edition Chapter 4 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics 11th Edition Chapter 4 Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Conceptual Physics 11th Edition Chapter 4 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics 11th Edition Chapter 4 Answers

- Personalized Recommendations
 - Conceptual Physics 11th Edition Chapter 4 Answers User Reviews and Ratings
 - Conceptual Physics 11th Edition Chapter 4 Answers and Bestseller Lists
5. Accessing Conceptual Physics 11th Edition Chapter 4 Answers Free and Paid eBooks
 - Conceptual Physics 11th Edition Chapter 4 Answers Public Domain eBooks
 - Conceptual Physics 11th Edition Chapter 4 Answers eBook Subscription Services
 - Conceptual Physics 11th Edition Chapter 4 Answers Budget-Friendly Options
 6. Navigating Conceptual Physics 11th Edition Chapter 4 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Conceptual Physics 11th Edition Chapter 4 Answers Compatibility with Devices
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 - Highlighting and Note-Taking Conceptual Physics 11th Edition Chapter 4 Answers
 - Interactive Elements Conceptual Physics 11th Edition Chapter 4 Answers
 8. Staying Engaged with Conceptual Physics 11th Edition Chapter 4 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Conceptual Physics 11th Edition Chapter 4 Answers
 9. Balancing eBooks and Physical Books Conceptual Physics 11th Edition Chapter 4 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Physics 11th Edition Chapter 4 Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Conceptual Physics 11th Edition Chapter 4 Answers
 - Setting Reading Goals Conceptual Physics 11th Edition Chapter 4 Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Conceptual Physics 11th Edition Chapter 4 Answers

- Fact-Checking eBook Content of Conceptual Physics 11th Edition Chapter 4 Answers
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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