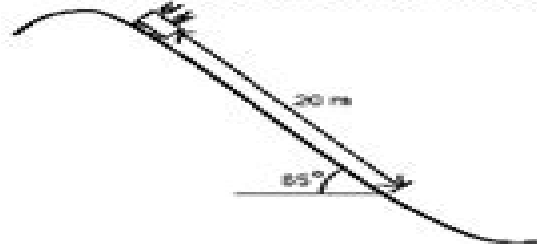


Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

1. A rollercoaster car, 300 kg with passengers, accelerates down a 65° hill. We will assume that friction is small enough that it can be ignored.



- a. Draw a force diagram for the system of car and riders.



- b. Determine the value of the component of the gravitational force parallel to the hill.

$$F_{g\text{par}} = (\sin \theta)F_g = (\sin 65^\circ)(300\text{kg})(10 \frac{\text{N}}{\text{kg}}) = 2720\text{N}$$

- c. What is the acceleration of the rollercoaster down the hill?

$$a = \frac{F_{\text{net}}}{m} = \frac{F_{g\text{par}}}{m} = \frac{2720\text{N}}{300\text{kg}} = 9.1 \frac{\text{m}}{\text{s}^2}$$

- d. If they are traveling 4 m/s at the time shown in the picture, how fast will they be traveling at the end of the straight stretch, 20 m later?

$$\begin{aligned} v_f^2 - v_i^2 &= 2a\Delta x \Rightarrow v_f^2 = 2a\Delta x + v_i^2 \\ v_f^2 &= 2(9.1 \frac{\text{m}}{\text{s}^2})(20\text{m}) + (4 \frac{\text{m}}{\text{s}})^2 \Rightarrow v_f^2 = 364 \frac{\text{m}^2}{\text{s}^2} + 16 \frac{\text{m}^2}{\text{s}^2} \\ v_f^2 &= 380 \frac{\text{m}^2}{\text{s}^2} \Rightarrow v = \pm \sqrt{380 \frac{\text{m}^2}{\text{s}^2}} \approx 20 \frac{\text{m}}{\text{s}} \end{aligned}$$

Answer Key Net Force Particle Model 2

Arturo Cuomo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answer Key Net Force Particle Model 2:

Complex Sciences Jie Zhou, 2009-06-29 I was invited to join the Organizing Committee of the First International Conference on Complex Sciences Theory and Applications Complex 2009 as its ninth member At that moment eight distinguished colleagues General Co chairs Eugene Stanley and Gaoxi Xiao Technical Co chairs J nos Kert sz and Bing Hong Wang Local Co chairs Hengshan Wang and Hong An Che Publicity Team Shi Xiao and Yubo Wang had spent hundreds of hours pushing the conference half way to its birth Ever since then I have been amazed to see hundreds of papers flooding in reviewed and commented on by the TPC members Finally more than 200 contributions were lected for the proceedings currently in your hands They include about 200 papers from the main conference selected from more than 320 submissions and about 33 papers from the five collated workshops Complexity Theory of Art and Music COART Causality in Complex Systems ComplexCCS Complex Engineering Networks ComplexEN Modeling and Analysis of Human Dynamics MANDYN Social Physics and its Applications SPA Complex sciences are expanding their colonies at such a dazzling speed that it comes literally impossible for any conference to cover all the frontiers *Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024)* Oswaal Editorial Board, 2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions *Oswaal One for All Class 12 English, Physics, Chemistry & Biology (Set of 4 books) (For CBSE Board Exam 2024)* Oswaal Editorial Board, 2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam Readiness with Previous Year s Questions Board Marking Scheme Answers Valuable Exam Insights with 3000 NCERT Exemplar Questions Extensive Practice with Unit Wise Self Assessment Questions Practice Papers NEP Compliance with Competency based questions **The Science Teacher** ,2006 [Science for Primary and Early Years](#) Jane Devereux, 2007-06-14 Science for Primary and Early Years is a comprehensive guide to the subject knowledge requirements for the teaching of science in early years settings and primary schools This second edition consists of activities to help the reader extend their own understanding of science Part One explores understanding the nature of science processes of planning carrying out and evaluating scientific investigations collecting and using data hypothesizing predicting fair testing use of correct terminology and understanding health and safety as well as key ideas in science that underpin subject knowledge Part Two builds on these ideas as it explores in more detail life and living processes the environment electricity and magnetism light sound and

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Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Technical Abstracts** Goddard Space Flight Center,1962

Advanced Materials Research IV Zhi Hua Guo,Jie Xu,2014-02-27 Selected peer reviewed papers from the 2014 4th International Conference on Advanced Materials Research ICAMR 2014 January 22 23 2014 Macau China **Foundations of Exercise Science** Peter Klavora,2004 *Computer Modeling in Engineering & Sciences* ,2006 **1992 Linear Accelerator Conference Proceedings** ,1992 *CRASH COURSE JEE(MAIN) / AIEEE - PHYSICS* V&S EDITORIAL BOARD,2015-01-09 This book is meant to be a quick refresher for JEE MAIN AIEEE aspirants With the aim and scope of providing a comprehensive study package for aspirants of JEE MAIN AIEEE this crash course focuses less on theory and more on concepts formulae and tips This is supported by plenty of practice problems based on the latest formats structure and syllabus of JEE MAIN AIEEE This is further supplemented by a CD given along with this study kit with fully solved 2012 JEE MAIN AIEEE question paper Salient features A Based on the latest pattern and syllabus of JEE MAIN AIEEE A Solved examples practice problems in each chapter A Previous years question papers fully solved A Less theory and more concepts formulae and tips A Practice CD with fully solved JEE MAIN AIEEE 2012 question paper A Plenty of problems for practice A Comprehensive holistic revision of the complete syllabus of JEE MAIN AIEEE A In depth analysis of the recent trends of JEE MAIN AIEEE A A quick and efficient study kit for JEE MAIN AIEEE aspirants A Facilitates self study A Low priced handy book for quick and efficient revision Proceedings of the Section on Statistical Education American Statistical Association. Section on Statistical Education,1994 *Virginia Journal of Science* Ruskin Skidmore Freer,1971 **Astronomy** William K. Hartmann,1941-12-12 This hybrid text Web product is a comprehensive introduction to astronomy covering all of the major topics in a thorough yet concise approach The authors take students on a threefold journey through history where they see how humans slowly developed our present picture of the universe through space from Earth outward where they see how our expanding frontiers have revealed the geography of our universe and through cosmic time where they travel back through cosmic time Through these themes the book s content connects science and the humanities without treating science as just

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