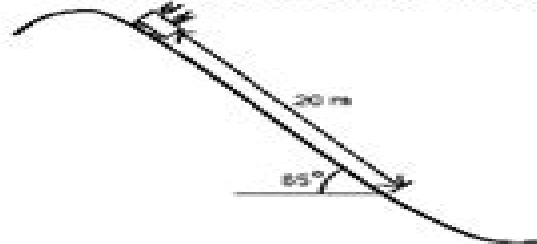
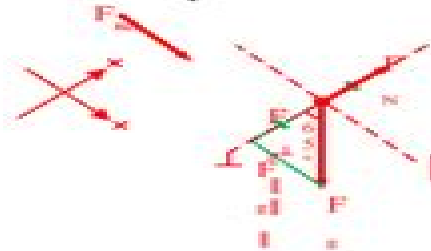


Net Force Particle Model Worksheet 4: Newton's 2nd Law and Component Forces

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?

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

Net Force Particle Model 3 Answers

Jan Dangerfield, Stuart Haring



Net Force Particle Model 3 Answers:

Newton's Laws of Motion and Friction SANJAY KUMAR,2020-02-26 This physics book is the product of more than fifteen years of teaching and innovation experience in physics for JEE main and Advanced aspirants Our main goals in writing this book are to present the basic concepts and principles of physics that students need to know for JEE advanced and other related competitive exams to provide a balance of quantitative reasoning and conceptual understanding with special attention to concepts that have been causing difficulties to student in understanding the concepts to develop students problem solving skills and confidence in a systematic manner to motivate students by integrating real world examples that build upon their everyday experiences What s New Lots Much is new and unseen before Here are the big four 1 Every concept is given in student friendly language with various solved problems The solution is provided with problem solving approach and discussion 2 Checkpoint questions have been added to applicable sections of the text to allow students to pause and test their understanding of the concept explored within the current section The answers to the Checkpoints are given in answer keys at the end of the chapter so that students can confirm their knowledge without jumping too quickly to the provided answer 3 Special attention is given to constrained relations and block over block friction problems so that student can easily solve them with fun 4 To test the understanding level of students multiple choice questions conceptual questions practice problems with previous years JEE Main and Advanced problems are provided at the end of the whole discussion Number of dots indicates level of problem difficulty Straightforward problems basic level are indicated by single dot intermediate problems JEE mains level are indicated by double dots whereas challenging problems advanced level are indicated by thee dots Answer keys with hints and solutions are provided at the end of the chapter **Teacher's Resource**

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