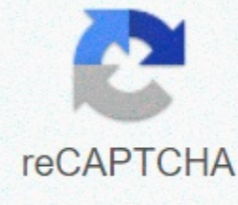




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Chapter 3 momentum and energy conservation of energy answers

Note This manually describes the laboratory experience used during the 1996-1997 academic year. Significant changes have been made since then, and the manual used during the current academic year is not yet available on the web. Harkapians can be purchased in the book of books. The objective of the cabinet is to verify the laws of speed and energy conservation. Specifically you will: Part A. Linear Track (Setup in Room 266) Newton's first law flexible colanelastic colx (optional). Newton's first law examination using the Kanisthetak car. Part B. The Introduction of The Basic and Useful Laws of Physics to The Basic and Useful Laws of The Basic And Useful Laws of The Basic Systems of The Basic Systems (267 Set Up in Room) They help solve many mecanex problems and often come to many areas of science. These laws say that if there is no pure army on a system, then the same speed in its system, $p = MV$, will be there all the time. In addition, if any external or internal forces do not work in a system, the energy of this system is constantly maintained. Newton's first law is hidden in these protection laws. Newton's first law is that the remaining bodies will remain until any forces follow them and they will remain in motion until any forces follow them. As you can see, Newton's first law is a statement about speed and energy security. Things stay the same, as long as they're living alone. Despite their basic nature, safety laws are often difficult to observe in common experiments, mainly due to the presence of friction. Friction between dynamic entities and their environment means that external forces work on systems, so, protection laws do not apply. Therefore, to follow the safety laws, it is necessary to end friction to the maximum extent. This lab will primarily deal with safety laws because they apply to breathing between materials. This coolcan be divided into different classes; flexible coal and elastic coal. If the cinating energy of a particle is the same before and after the collision, then the collision is said to be flexible. Notice the reference to particles. Solid bodies are not particles, but structure. If collisions, however, there are no changes, they can be treated as particles. For the second type of collision, energy will flow between two objects, and the canetic energy will not be conserved. In this case, the collision is said to be inflexible. Remember that in the absence of friction, the speed will be serviced in both types of coals. In a long way, two bodies of the public and m2, the initial valocutis v1i and v2i are given by the conditions before and after a flexible collision, and the last valvecatis v1f and v2f (the momentum) An inflexible collision is just the speed equation right. Prelab homework from Prelab Homework should be done at home and you must hand over the lab to TA before starting the lab. 1) A small ball of massive m1 and speed v1i is a flexible clash with a large, stationery objection of mass. That two people and v1i have the major objection speed after the clash in terms v1f and v2f that show that for the previous problem 2), it shows that the ball speed is reversed after if the stationery objection is too large, go on m2 infiniti. Identify the limits of the valvekates. Part A: Track. Picture. 1 For these experiments you will have very few friction alves that will be done using a track with vehicles. The track setup with a basket used in experiments is shown in 1 shape. You will be able to measure the time interval of a basket using the picture gettimer (see handout on the photo gettimer), which can calculate the speed of your basket. This basket is an electronic timer controlled by a hidden oradition light-barrier when the door is passed. If the length of something is a time interval for L interrupts is the bean for t, then the door goes through, then the average speed of objection during that time (3.1) is the basic measurement you will make in this experience. By measuring the speed of vehicles before and after different vehicles, as well, your energy and speed will be able to calculate and check safety laws. Timer operation: For a full explanation of the timer, see handout. Operation and track setup: There are several things that should be done in preparation for experiments. The most important thing is if the track level is checked. Levels are provided for this purpose. Take one, and keep on the foot of the track at one end of the track. First, keep it along the length of the track and observe the bubble of the surface. You can adjust the height of the picture door by changing the scrow on the post and moving the socket up or down. Make sure you adjust both the photos gates. 4) Adjust the basket's aperture so on scale it is 3.2 cm when it is You can adjust the compression by sizing on softness and sliding it into position. Take one of the vehicles and take it to the adventure. Make sure the purpose is at the center of the adventure basket. Make sure the basket's wheel is in the groves of the track. Launch of the basket by wire inches on the launch of the aperture. Once it has passed through both of the picture doors, stop the basket and record the times shown at the picture door. 5) Redo step 4 2 one more time for a total of three trials. 6) Steps 4 and 5, with a friction block instead of the public at this time. Place a piece of the ass in the vein on the rub block, (you may need two to fit firmly). Make sure you record new mass of the carat. Procedure for A. 2: Flexible cooling for this experience will make you flexible with two vehicles. You will find all possible scenarios; Two vehicles of the same massive collision, a low mass collision basket with a high mass basket, a basket of high-scale collisions with one of the lower mass, and a basket collision with an unlimited mass (finally stops). It is important that you set the layout to the settings described. These settings best demonstrate each view. 1) Place one of the vehicles with two icar public on it and as a gate, between two picture gates, the other picture between about three-fourths of the gate path. Set the aperture for 3.5 cm. Place each other's basket with the rub block and the asses in position should be started. Make sure that the vehicles' pallongars are facing each other and that the pallongaras are all the way. 2) Start the basket in between towards that stationery basket. The cart will move through the picture door and be away from the stationery basket. Two vehicles will then pass through their related photo gates. Record the initial time that the car was moved through the picture gate and then the vehicles started passing through the door after. Remember that the time in remembrance appears is the total time. You must reduce to get the original second time. 3) Do this process again twice. 4) Repeat steps 1-3, but at this time both vehicles should have friction blocks on them so their people are equal. Set the aperture to 2 cm. 5) Repeat steps 1-3, but at this time you should have two people in the launch basket and its basket to block the friction. Adjust the aperture at 3 cm. 6) Do steps 1-3 again, but at this time, finally use only one basket bump with the stop. Move the picture door to the end opposite to the track spaced similarly. Slide the aperture about 100 cm from its current position. Set the aperture for 3.5 cm. Move the car into position and launch it. When you record the time that is displayed at both the gate of the picture before and after this collision. Procedures for experience This last conflict experience will be unfavourable to deal with inflexible collisions. Redo the procedure for part B, but at this time the wall-end of the vehicles should be confronted. In every collision, vehicles must collide and stay together. When the vehicles pass by with the picture gate, the bean will only break when the carboard is passed. This means that there will be a place where the bean is not cut, so make sure you measure the length of two pieces of pieces and not the length of two vehicles. Procedure a. 4 For an experience: You and your partner will re-experience with a third person you demonstrated by you. Instructions on how to do this experience is in one hand in which your TA will give you. Data analysis for part A. The goal in all cases is to compare the initial speed of vehicles with the ultimate speed, and so is the initial basic basic energy in the finals. This will be done by the initial distribution of the ultimate price of the speed, giving part of the speed that is conserved. If safety laws are held, it should be equal to one. The results indicate at least one that the speed was lost. Similarly, the share of the canetic energy that is conserved will be found. Newton's first law is that if there is no pure power on an item, its speed will not change. Use recorded data to check you by calculating the speed part you work in each trial. Because there is only one basket, its massive and length factor will be out of this proportion, which will be followed by (3.2) where ti and tf are time intervals before and after, se., The canetic energy should also be conserved. Count the part that is concerted, (3.3) the presence of any external forces, such as friction or gravity, will create a systematic error in all measurements. To get some kind of an idea of this effect, calculate the average share of the initial energy and speed lost for your data. To do this, first average all speed ratios and all the minetic energy ratios counted above, (average fractions to get the conserved), then reduce these results to one (to get lost average share), (3.4) (3.5) These results will be used in error analysis. Data analysis for part A. 2 calculates the speed and share of the connective energy that was serviced all over the coals; this calculation is (3.5) (3.6) speed and speed instructions, so give them signs in your calculation (i.e. the correct one is positive). You've teststhere, average these results. Once again find the average portion of the data analysis, speed and energy-sensitive service for part A. 3. In this case, v1f and v2f are the same (because vehicles are joined together). Analysis of faults for part If safety laws are correct, still inappropriate to expect fractions Because of the experimenting mistakes, to value exactly one. Errors in measuring length and time will only have a small impact on the results. Organized disorder is more important because of friction. Once damages are found, we will need to know how much friction can be attributed before following the safety laws. Losses due to friction were counted for cases in part (with equations 3.4 and 3.5). It will not give the right mistake because of friction, though, it should not be greater than a few times. So, unless the results are different from one in more than three or four times the damages found to the damage, we can assume these differences are likely due to friction. Decide whether safety laws have been verified in each part. Part B: The speed of a sway in this experience, the speed of a sway as it will be a spring gun is scaled using two methods. First, safety laws will be used in a somewhat subtle way to determine speed. For the competition, it will also be scaled using the sala movement. Part B1 measures the speed with a basic handlem figure 3.3 a ball is shot by a spring gun in a game organized to hold one for the swimming as a handlem (Figure 3.3). The ball is caught, the ball and the catch combination becomes the chapter of the pandalam. Although the collision between the ball and the catch is inflexible and the energy is not conserved, the speed is there. With the catch on rest, the initial speed of the system is provided by the ball, the speed is shot with vb. After the ball is caught, this is due to the movement of the mass center of the momentum caught and the ball collected from the ball, having vp the speed. Speed protection is required, these are the same (3.7) where m and M are the people of Pandalam. After the ball is caught, the energy of the combined ball and the catching system is conserved. Initially the mass center height is in h1, with speed vp. As it goes up against the power of gravity, the natural energy is converted into potential energy. A Powell mechanism at its highest point this much of the length, h2, is used to create a change in all the initial kinetic energy of the pandalam, where (3.8) which can be set by the increased measurement supplsh $h = h1-h2$ of the assembly mass center. The initial speed value of the ball is , (3.9) procedure for part B1 ensure that your apparets are tied firmly so it will not move during the experience. Make sure that there is a level of this and adjust it if necessary. The ball is done on a gun push stick through a hole through its diameter. Make sure it fits your apparets easily. Make sure the ball catching is attached to the spring gun. Chitra 3.4 1) Measurement and record the weight of your ball. To take the ball off the catch, lift Push from behind while spring with your finger. The ball should come out easily. Don't bend back on this spring, or it could break. 2) The weight of the pandalam. To do this, shave the schack bearing scrock carefully until the handlem continues. Change the pandalam and gently but firmly hold back. 3) The gun on the rod, first lying on the hook to get out of this path. Then, with the ball in place on the stick, push the ball up to the trembulator.. 4) Independently signals the base of the mass center height (C.M.) with the pandalam hanging. 5) Start with a rest-in-the-handlum, the ball catchers to fire in nine times (be careful when you catch it in the fire) and measure the height of the signal from base to C.M. All the time. It will not be always there. Part B2: With the sway motion figures measuring the speed 3.5 catch removed from its path, the ball will fall freely after that. It will follow a parabolax arc until it kills the table up, travelling horizontally while falling over vertical distances. The equation of the sala motion can be used to analyze the movement in these instructions, as shown in Figure 3.5. To finish the time, the initial speed of the ball is again (3.10) the procedure for part B2 to make sure that the equipment is tied safely and placed on a block on the table. Practice firing the ball with a gun on the table and Pandalam Bob Skunkany out of the way. Remember where the ball land. Be ware of wild shots. 1) Tap a piece of white paper on the top table area of the ball's ground. Cover it with carbon paper, down to carbon, so that the ball's impact point will create a mark. 2) Find position on the table directly below the center of the table and mark it with a piece of tape, with the place and the ball issued. 3) Measure the height by the top of the table. 4) Count each of the five bullets fire, the marked and the effects. 5) Measure the range L of each of these shots from your tape mark. Data analysis for part B1 calculates the average increase in the center height of the system's mass and its standard fault (from standard deviation of measurement). Use this data to calculate the initial speed of the ball and its fault (see the supplement on error analysis). You can assume that there is no mistake in the public. Count data analysis for part B2 from the average range L and its error [Delta] L standard deviation. Make a proper estimate of [Delta] h, a possible error in measuring your height. Calculate the initial speed of the ball by measuring H and L. Calculation of error in initial speed [Delta] vb achieved with this method. Add result errors (see error (3.11) compares the results achieved for the initial speed of the ball by two different methods. Are they according to your mistakes? Can you account for the contradictions? Contradictions?

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