

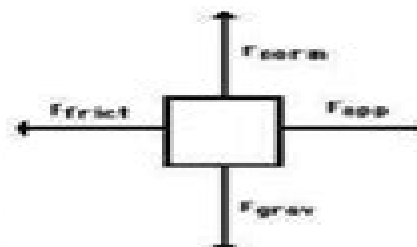
Worksheet # 1 Free Body or Force diagrams...

Drawing Free-Body Diagrams

Free-body diagrams are diagrams used to show the relative magnitude and direction of all forces acting upon an object in a given situation. A free-body diagram is a special example of the vector diagrams; these diagrams will be used throughout your study of physics.

The size of the arrow in a free-body diagram is reflective of the magnitude of the force. The direction of the arrow reveals the direction in which the force acts. Each force arrow in the diagram is labeled to indicate the type of force.

It is customary in a free-body diagram to represent the object by a box or a small circle and to draw the force arrow from the center of the box or circle outward in the direction in which the force is acting. One example of a free-body diagram is shown to the right.



The free-body diagram above depicts four forces acting upon the object. Objects do not always have four forces acting upon them. There will be cases in which the number of forces depicted by a free-body diagram will be one, two, or three. There is no hard and fast rule about the number of forces which must be drawn in a free-body diagram. The only rule for drawing free-body diagrams is to depict all the forces which exist for that object in the given situation.

Thus, to construct free-body diagrams, it is extremely important to know the types of forces. If given a description of a physical situation, begin by using your understanding of the force types to identify which forces are present. Then determine the direction in which each force is acting. Finally, draw a box and add arrows for each existing force in the appropriate direction; label each force arrow according to its type.

Apply the method described in the reading to construct free-body diagrams for the situations described below. Use the symbols we discussed in class. Draw force vectors on the circle and label them.

1. A book is at rest on a table top. Diagram the forces acting on the book.



2. A girl is suspended motionless from the ceiling by a rope. Diagram the forces acting on the girl as she holds onto the rope.



3. An egg is free-falling from a nest in a tree. Neglect air resistance. Diagram the forces acting on the egg as it falls.



4. An egg is falling (not freely, do not neglect air resistance) from a nest in a tree. Diagram the forces acting on the egg as it falls.



Rotational Motion Worksheet Answer Key

George Graybill



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web jun 5 2022 upon application of input voltage the time delay t1 begins at the end of the time delay t1 the output is energized and remains in that condition for the time delay t2 at the end of this time delay t2 the output is de energized input voltage must be removed to reset the time delay relay

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instead of the 12 volt relay the delay time depends on the r2 resistor and c1 capacitor for the constant delay time use a fixed resistor in r2 but for the adjustable off delay time you can use a 1m pot

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web click here to buy delay timer relay module the delay timer circuit is quite simple d1 diode 1n4007 which will be a protection to the circuit from flybacks by the relay coil and 12v relay the delay time is decided by capacitor c1 vr1 that has to be checked either by simulation or by testing first on a breadboard

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web also called normally closed off delay relays one shot timers provide a single contact pulse of specified duration for each coil energization transition from coil off to coil on recycle timers provide a repeating sequence of on off contact pulses as long as the coil is maintained in an energized state

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web now if you want to reverse the operation of the circuit simply wire the blue and red wires together from the timer and connect it to the photo eye as shown in the figure now the circuit is reversed for example the light will turn off at night and switch on in the sunshine during the day good to know it is recommended to add a relay

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web mar 24 2019 here the time defining components both r and c are switched creating distinct rc pairs p1 r3 and c1 for the off time and another pair p2 r4 and c2 for the on time notably the relay remains unpowered when a

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web this type of positive feedback is also called hysteresis and provides a fast transition from the on to off state once turning off starts the off delay timing is mostly a function of c1 and r6 the exact delay is a bit hard to predict because it depends on the gain of the transistors particularly of q1

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