

Theory

An Atwood's Machine consists of two masses hanging connected by a single string that passes over an ideally massless and frictionless pulley as in Figure 1. When released, the heavier object accelerates downwards while the lighter object accelerates upwards.

The free-body diagrams (Fig. 2) show the forces acting on each of the masses. T is the tension in the string. Let $m_1 > m_2$, m_1 is descending mass and m_2 is the ascending mass. The magnitude of the acceleration, a , is the same for each mass, and the masses accelerate in opposite directions. We adopt the convention that down is positive. Applying Newton's 2nd Law (F_{net}) to the descending mass, m_1 , gives

$$m_1 g - T = m_1 a$$

Applying Newton's 2nd Law to the ascending mass, m_2 , gives

$$m_2 g - T = m_2 a$$

Eliminating T between the two equations and solving for the acceleration yields

$$a = g \frac{(m_1 - m_2)}{(m_1 + m_2)} \quad \text{Eqn. (1)}$$

Show that Eqn. (1) reduces to the expected result in the following limiting cases. Explain why each case is expected.

$m_1 = m_2$ $a = ?$

$m_2 = 0$ $a = ?$



Figure 1. Atwood's Machine

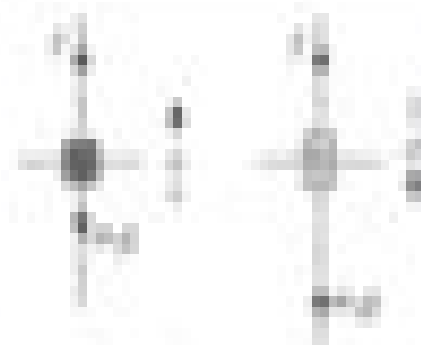


Figure 2. Free Body Diagrams

Pasco Physics Experiment Manual

David R. Sokoloff, Priscilla W. Laws



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Physics I Laboratory Manual John Winfrey, 2015-03-07 This is a Physics Term I Laboratory Manual It has been tested with the FCI and produces maximum gain found in literature It has been upgraded to accommodate PASCO Capstone Software It also employs the CCD model to eradicate misconceptions about how nature works One cannot build new material on a faulty foundation In fact student s conceptual foundation must be reinstalled *Advanced Physics 1 Lab Manual* PASCO scientific, 2019-04-10 *Announcer* , 2004 *Experiments And Demonstrations In Physics: Bar-ilan Physics Laboratory (2nd Edition)* Yaakov Kraftmakher, 2014-08-20 A laboratory manual for high schools colleges and universities The second edition contains more than 140 experiments and demonstrations presented in ten chapters Introductory Experiments 30 Mechanics 11 Molecular Physics 11 Electricity and Magnetism 13 Optics and Atomic Physics 12 Condensed Matter Physics 11 Semiconductors 10 Applied Physics 11 Nobel Prize Experiments 10 and Student Projects 25 All the experiments are illustrated through the results of real measurements New experiments developed by the author in 2007 2014 are added to this edition **Advanced Physics 2 Lab Manual** PASCO scientific, 2019-04-10 [125 Physics Projects for the Evil Genius](#) Jerry Silver, 2009-03-22 125 Wickedly Fun Ways to Test the Laws of Physics Now you can prove your knowledge of physics without expending a lot of energy 125 Physics Projects for the Evil Genius is filled with hands on explorations into key areas of this fascinating field Best of all these experiments can be performed without a formal lab a large budget or years of technical experience Using easy to find parts and tools this do it yourself guide offers a wide variety of physics experiments you can accomplish on your own Topics covered include motion gravity energy sound light heat electricity and more Each of the projects in this unique guide includes parameters a detailed methodology expected results and an explanation of why the experiment works 125 Physics Projects for the Evil Genius Features step by step instructions for 125 challenging and fun physics experiments complete with helpful illustrations Allows you to customize each experiment for your purposes Includes details on the underlying principles behind each experiment Removes the frustration factor all required parts are listed along with sources 125 Physics Projects for the Evil Genius provides you with all of the information you need to demonstrate Constant velocity Circular motion and centripetal force Gravitational acceleration Newton s laws of motion Energy and momentum The wave properties of sound Refraction reflection and the speed of light Thermal expansion and absolute zero Electrostatic force resistance and magnetic levitation The earth s magnetic field The size of a photon the charge of an electron and the photoelectric effect And more **Pasco Instructor Lab Manual with CD to Accompany Fundamentals of Physics Seventh Edition by Halliday , Resnick and Walker** David Halliday, 2004-06-11 No other book on the market today can match the 30 year success of Halliday Resnick and Walker s Fundamentals of Physics Fundamentals of Physics 7th Edition and the Extended Version 7th Edition offer a solid understanding of fundamental physics concepts helping readers apply this conceptual understanding to quantitative problem solving in a breezy easy to understand style A

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