

AP Physics Lab Guide

- Labs consist of 40% of your grade
- You will usually have 2-3 labs per quarter
- Sometimes labs will be repeated using a different procedure to increase accuracy
- A lab group consists of 3-4 people, unless it is a partner lab
- Lab reports usually have to be typed
- Each person is responsible for writing their own lab report (you cannot turn in one for the whole group) unless otherwise stated

Each Lab Report must have the following components:

- 1) **Cover Page-** The cover page must have the title of the lab, the date, and your name on it. Your lab partners' names must be in parentheses underneath your name as well
- 2) **Abstract-** The abstract must give a basic overview of the lab. It must briefly explain what the experiment is designed to do and how you did it (not in great detail, though). A basic summary of your findings must also be included. The abstract should not be more than one paragraph long

A example of an abstract	C example of an abstract
<p>This experiment is designed to prove whether or not momentum is conserved in explosions. The experiment was conducted with a frictionless track, two frictionless carts, and two photogates. Two mass scenarios were used for the explosion portion of the lab. Mass scenario one consisted of cart 1 having a mass of .50641 kg and cart 2 having a mass of .50613 kg. Mass scenario two consisted of cart 1 having a mass of 1.01042 kg and cart 2 having a mass of .50613 kg. These different mass scenarios are intended to prove that momentum is conserved no matter what the combination of masses of the carts is. For the explosion portion of the lab, the initial momentum was 0 kgm/s for both masses because they were both stationary. The lab proved that mass was conserved in both scenarios of the explosion portion of the lab because in both scenarios, final momentum was also 0 kgm/s. This is because the carts' momentums were in opposite directions and cancelled each other out.</p>	<p>This experiment was designed to show whether or not momentum was conserved. After running the carts on a frictionless track, it was decided that momentum was actually conserved. We conducted explosions. We used carts of different masses. For the most part, the lab showed that momentum was conserved.</p>

- 3) **Introduction-** The introduction must state what the intention of the lab is. This should be a very short paragraph.

A+ Example of an Intro	C Example of an Intro
<p>This lab was designed to show that momentum is conserved in explosions. This entire lab was driven by the theory that, in a closed system, momentum of the system before would be</p>	<p>This lab was intended to show whether or not momentum is conserved.</p>

Ap Physics Lab Guide

Ensheng Dong



Ap Physics Lab Guide:

AP Physics Lab Guide , **The Sourcebook for Teaching Science, Grades 6-12** Norman Herr,2008-08-11 The Sourcebook for Teaching Science is a unique comprehensive resource designed to give middle and high school science teachers a wealth of information that will enhance any science curriculum Filled with innovative tools dynamic activities and practical lesson plans that are grounded in theory research and national standards the book offers both new and experienced science teachers powerful strategies and original ideas that will enhance the teaching of physics chemistry biology and the earth and space sciences **The United States Catalog** ,1904 *Readers' Guide to Periodical Literature* ,1920 *The Cumulative Book Index* ,1909 A world list of books in the English language **The United States Catalog** George Flavel Danforth,Marion Effie Potter,1900 *Reader's Guide to Periodical Literature Supplement* ,1918 These vols contain the same material as the early vols of Social sciences humanities index **The American Educational Catalogue** ,1919 *An Introductory Guide to EC Competition Law and Practice* Valentine Korah,1994 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1957 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December [Subject Guide to Books in Print](#) ,2001 **The United States Catalog** Marion E. Potter,1912 ... *High School Physics* ... Horatio Nelson Chute,1905 **Catalog of Copyright Entries** Library of Congress. Copyright Office,1911 **Catalog of Copyright Entries. Part 1. [B] Group 2. Pamphlets, Etc. New Series** Library of Congress. Copyright Office,1929 *Catalogue of Title Entries of Books and Other Articles Entered in the Office of the Register of Copyrights, Library of Congress, at Washington, D.C.* Library of Congress. Copyright Office,1916 [The American Catalogue](#) ,1908 **Resources in Education** ,1985 [The Publishers Weekly](#) ,1906 **Catalog of Copyright Entries** ,1929

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of thin walls allowed us to develop a simple analysis that ignored the variation of radial stress when the wall thickness becomes appreciable in proportion

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the radial stress is small and can be neglected

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web a fluid container sealed by a piston is open c in this case an external axial force f_a is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if A_i is the internal circular area then a free body of either piston or cylinder end c must have $f_a = p_i A_i$ and there is no need for axial wall stresses to

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