

**EXPERIMENT NO. 1 (A)****AIM: VERIFICATION OF PARALLELOGRAM LAW OF FORCES**

**APPARATUS:-** Gravesand's apparatus complete with two freely moving guide pulleys, weights, thread, a small central ring, white paper sheet, three scale pans, tape, a mirror strip, set squares and pencil.

**THEORY:** The 'Parallelogram Law of forces' states that if a particle is acted upon by two forces represented in magnitude and direction by the two sides of a parallelogram drawn from a point, then the resultant is completely represented by the diagonal passing through the same point.



Fig. LW—1

**PROCEDURE:**

- I) Take any point O on the plane of paper and draw a line OA Parallel to forces Z. Similarly draw a line OB parallel to force X.
- II) Complete the parallelogram OAC'B as shown in fig. 2



Fig. LW—2

- III) Join O to C' which is the diagonal of the parallelogram OC' to the given scale gives the resultant of forces X and Z.

# **Mechanics Lab Manual**

**Athos Petrou, Francis M.  
Gasparini, Scott Whitmire**



## **Mechanics Lab Manual:**

*Engineering Mechanics Lab Manual* A.K. Gupta, M. Bhoot, 2015-06-01 The book has been prepared in the form of a complete package that includes the experiments which have been written very carefully meeting the standard adopted procedures descriptive figures that aid the understanding discussion sections that intrigues the analytical rational thinking objective questions portion a wide reference list for detailed study The language has been used keeping in view the wide readership which includes students demonstrators lecturers field personnel others The selection of the experiments has been done very precisely incorporating the very important ones from the subject      **Soil Mechanics Lab Manual** Michael E. Kalinski, 2011-08-24 Soil Mechanics Lab Manual prepares readers to enter the field with a collection of the most common soil mechanics tests The procedures for all of these tests are written in accordance with applicable American Society for Testing and Materials ASTM standards Video demonstrations for each experiment available on the website prepare readers before going into the lab so they know what to expect and will be able to complete the tests with more confidence and efficiency Laboratory exercises and data sheets for each test are included in the Soil Mechanics Lab Manual      Physics 2111/2511 Laboratory Manual: Physics I Laboratory Classical Mechanics Prairie View A & M University, 2015-08-30 Physics 2111 2511 Laboratory Manual Physics I Laboratory Classical Mechanics teaches students how to apply the scientific method in various physics situations It gives descriptions of each laboratory and explains some of the concepts required to be understood in order to complete the course This lab manual also illustrates concepts through everyday life examples      **Fluid Mechanics Laboratory Manual for Civil Engineering Students** G. Padmanabhan, 2007-12-28      Soil Mechanics Laboratory Manual Braja M. Das, 1997 Soil Mechanics Laboratory Manual Fifth Edition is designed for a laboratory course in soil mechanics also called geotechnical engineering that commonly accompanies a lecture course in the same subject The book is designed for junior level third year undergraduate courses in civil engineering departments and includes laboratory procedures essential to understanding the properties of soils and their behavior under stress and strain Features Includes sample calculations and graphs relevant to each laboratory test Supplies blank tables that accompany each test for laboratory use and report preparation Contains a new chapter on soil classification Chapter 9 Provides two useful appendices Appendix A Weight Volume Relationships Appendix B Data Sheets for Laboratory Experiments Offers a list of relevant references      Lab. Manual of Fluid Mechanics & Machines Gupta, Chandra, 2006-02-01      *Student Lab Manual for Argument-Driven Inquiry in Physics* Victor Sampson, Todd Hutner, Daniel FitzPatrick, Adam LaMee, Jonathon Grooms, 2017-08-15      *Mechanical Engineering Laboratory Manual* Earl Baldwin Smith, 1912      **Physics Laboratory Manual I** Earl Oxford, 1998-03-01

*Soil Mechanics Laboratory Manual* Braja M. Das, 1982 Now in its sixth edition Soil Mechanics Laboratory Manual is designed for the junior level soil mechanics geotechnical engineering laboratory course in civil engineering programs It includes eighteen laboratory procedures that cover the essential properties of soils and their behavior under stress and strain

as well as explanations procedures sample calculations and completed and blank data sheets Written by Braja M Das respected author of market leading texts in geotechnical and foundation engineering this unique manual provides a detailed discussion of standard soil classification systems used by engineers the AASHTO Classification System and the Unified Soil Classification System which both conform to recent ASTM specifications To improve ease and accessibility of use this new edition includes not only the stand alone version of the Soil Mechanics Laboratory Test software but also ready made Microsoft ExcelRG templates designed to perform the same calculations With the convenience of point and click data entry these interactive programs can be used to collect organize and evaluate data for each of the book s eighteen labs The resulting tables can be printed with their corresponding graphs creating easily generated reports that display and analyze data obtained from the manual s laboratory tests FeaturesBL Includes sample calculations and graphs relevant to each laboratory testBL Supplies blank tables that accompany each test for laboratory use and report preparationBL Contains a complete chapter on soil classification Chapter 9 BL Provides references and three useful appendices Appendix A Weight Volume RelationshipsAppendix B Data Sheets for Laboratory ExperimentsAppendix C Data Sheets for Preparation of Laboratory Reports

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educational setting Each lab activity begins with a recommended equipment list to facilitate lesson preparation A list of recommended data analysis software tools is provided in some equipment lists For educational settings where no data analysis software is available data is provided so students can complete the laboratory reports for the lab activity Applied Biomechanics Laboratory Manual gives students an opportunity to observe the principles of biomechanics in action The manual serves as a high quality resource for students to learn how to perform basic laboratory testing procedures used in assessing human performance and body mechanics Note A code for accessing HKPropel is not included with this ebook A *Laboratory Manual of Organic Chemistry for Beginners* Arnold Frederick Holleman,1913 Mechanics & Electricity Pearson Custom Publishing,1996-12-01 *Dynamo Laboratory Manual* William Suddards Franklin,1919 *Mechanics* Athos Petrou,Francis M. Gasparini,Scott Whitmire,2013 *Fluid Mechanics Experiments* Robabeh Jazaei,2022-05-31 Fluid mechanics is one of the most challenging undergraduate courses for engineering students The fluid mechanics lab facilitates students learning in a hands on environment The primary objective of this book is to provide a graphical lab manual for the fluid mechanics laboratory The manual is divided into six chapters to cover the main topics of undergraduate level fluid mechanics Chapter 1 begins with an overview of laboratory objectives and the introduction of technical laboratory report content In Chapter 1 error analysis is discussed by providing examples In Chapter 2 fluid properties including viscosity density temperature specific weight and specific gravity are discussed Chapter 3 revolves around the fluid statics include pressure measurement using piezometers and manometers Additionally hydrostatic pressure on the submerged plane and curved surfaces as well as buoyancy and Archimedes Principle are examined in Chapter 3 In Chapter 4 several core concepts of fluid dynamics are discussed This chapter begins with defining a control system based on which momentum analysis of the flow system is explained The rest of the chapter is allotted to the force acting on a control system the linear momentum equation and the energy equation Chapter 4 also covers the hydraulic grade line and energy grade line experiment The effect of orifice and changing cross sectional area by using Bernoulli s equation is presented in Chapter 4 The application of the siphon is extended from Chapter 4 by applying Bernoulli s equation The last two chapters cover various topics in both internal and external flows which are of great importance in engineering design Chapter 5 deals with internal flow including Reynolds number flow classification flow rate measurement and velocity profile The last experiment in Chapter 5 is devoted to a deep understanding of internal flow concepts in a piping system In this experiment students learn how to measure minor and major head losses as well as the impact of piping materials on the hydrodynamics behavior of the flow Finally open channels weirs specific energy and flow classification hydraulic jump and sluice gate experiments are covered in Chapter 6

**Applied Fluid Mechanics Lab Manual** Habib Ahmari,Shah Md Imran Kabir,2019 Basic knowledge about fluid mechanics is required in various areas of water resources engineering such as designing hydraulic structures and turbomachinery The applied fluid mechanics laboratory course is designed to enhance civil engineering students

understanding and knowledge of experimental methods and the basic principle of fluid mechanics and apply those concepts in practice The lab manual provides students with an overview of ten different fluid mechanics laboratory experiments and their practical applications The objective practical applications methods theory and the equipment required to perform each experiment are presented The experimental procedure data collection and presenting the results are explained in detail LAB

Mechanics Laboratory Manual Jean-Claude Ba,David E. Wilson,1996-09      **Mechanics Laboratory Manual** Temple University. Department of Physics,196?

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