

# **MECHANICAL ENGINEERING DEPARTMENT LAB MANUAL**

## **Material Testing Lab (Subject Code: KME 352)**

### **List of Experiments:**

#### **Objectives:**

- To understand the principles and performance characteristics different materials.
- To know about material properties.

1. Strength test of a given mild steel specimen on UTM with full details and stress versus strain plot on the machine.
2. Other tests such as shear, bend tests on UTM.
3. Impact test on impact testing machine like Charpy, Izod or both.
4. Hardness test of given specimen using Rockwell and Vickers/Brinell testing machines.
5. Spring index test on spring testing machine.
6. Fatigue test on fatigue testing machine.
7. Creep test on creep testing machine.
8. Experiment on deflection of beam, comparison of actual measurement of deflection with dial gauge to the calculated one, and or evaluation of young's modulus of beam.
9. Torsion test of a rod using torsion testing machine.
10. Study of NDT (non-destructive testing) methods like magnetic flaw detector, ultrasonic flaw detector, eddy current testing machine, dye penetrant tests.

**Course Outcomes:** The students who have undergone the course will be able to measure various properties of materials.

### **Experiment 1 (Tensile Test)**

**OBJECTIVE:** Strength test of a given mild steel specimen on UTM with full details and

# Mechanical Engineering Department Lab Manual

**Earl B. Smith**



## **Mechanical Engineering Department Lab Manual:**

**A Manual for the Course in Engineering Laboratory, Mechanical Engineering Department Lehigh University** Lehigh University. Department of Civil Engineering, 1903      **Elementary Mechanical Laboratory Manual** Albert Henry Repscha, 1935      *Advanced Mechanical Laboratory Manual* Albert Henry Repscha, Drexel Institute of Technology, 1939

**Mechanical and Hydraulics Laboratory Manual** Albert Henry Repscha, Drexel Institute of Technology, 1939  
*Mechanical Engineering Laboratory Manual* Earl Baldwin Smith, 1912      **Mechanical Engineering Laboratory Manual** Earl B. Smith, 1909      **Mechanical Engineering Laboratory Manual** Earl B Smith, 2015-08-11 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant      Fluid Mechanics with Laboratory Manual Bireswar Majumdar, 2010-10 Primarily intended for the undergraduate students of mechanical engineering civil engineering chemical engineering and other branches of applied science this book presents a comprehensive coverage of the basic laws of fluid mechanics The text also discusses the solutions of fluid flow problems that are modelled by differential equations Emphasis is placed on formulating and solving typical problems of engineering practice The text introduces the principle of fluid mechanics in a well organized manner beginning with the simple and proceeding to the complex The aim of laboratory manual at the end of chapters is to teach the students how to conduct experiments in fluid mechanics It provides the step wise details of experiments which include objective theory of the experiment apparatus used in the experiment procedure observations and graphs to be plotted Chapter end exercises enable the students to recapture the topics discussed and drill them in the theory Finally the worked out examples with solutions are useful to readers in comprehending the problems discussed The book would also prove to be a useful ready reference for the first level postgraduate student

Journal of the Engineers Society of Pennsylvania Engineers' Society of Pennsylvania, 1913      **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

Journal of the Engineers' Society of Pennsylvania; Papers, Discussions, Abstracts, Proceedings Engineers' Society of Pennsylvania,1913      **Resources in Education** ,1979-10      **AIAA Space Programs and Technologies Conference** ,1994      *First Chiao-tung University Library Catalogue [Foreign Books Department]* Shanghai jiao tong da xue. T'u shu kuan,1928      **Laboratory Manual of Elementary Chemistry** Jabez Montgomery,Roy Burnett Smith,1904      *A Laboratory Course in Biomaterials* Wujing Xian,2009-06-18 The field of biomedical engineering has vastly expanded in the past two decades as reflected in the increased number of bioengineering and biomaterials programs at universities The growth of this area has outpaced the development of laboratory courses that allow students hands on experience since the barriers involved in creating multidisciplina

**Mechanical Engineering News** ,1983      **Annual Reports ...** Drexel Institute of Technology,1939      **Mechanical Engineering Laboratory Manual** Burgess H. Jennings,1944      **Mechanical Engineering Laboratory Manual** Frederick A. Stearns,1958

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web the following exercises are based on the premiere products database using your knowledge of premiere products determine the functional dependencies that exist in the following table after determining the functional dependencies convert this table to an equivalent collection of tables that are in third normal form

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web this database will be used for a number of tutorial and lab exercises the database kept by premiere products is represented by the following relations rep numlast name first name street city state zip commission

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