

**EXPERIMENT NO. 5**

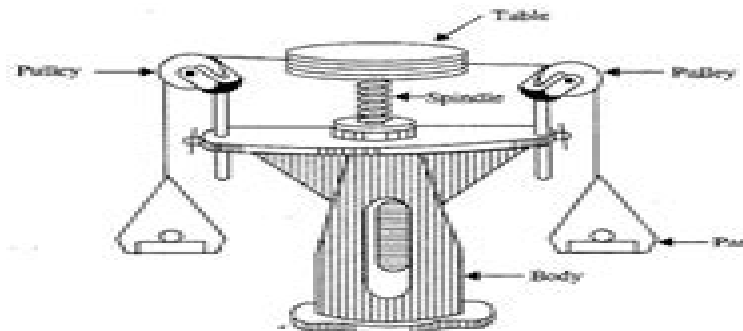
**AIM:** TO FIND THE MECHANICAL ADVANTAGE, VELOCITY RATIO AND EFFICIENCY OF SIMPLE SCREW JACK.

**APPARATUS:** Screw jack apparatus, pans, weights, string, vernier calipers, meter rod etc.

**Theory:** The screw jack is a simple machine by means of which heavy loads can be raised with the application of small effort. It works on the principle of screw and nut. The screw is rotated with the help of a tommy bar at the end of which an effort is applied. By doing so, the screw passing through the nut is raised and so is the load placed on its head.

The screw jack show in Figure is only experimental. It consist of a square threaded screw which is provide with double flanged circular table at its top to carry load to be lifted. The heavy body is providing with the two pulleys to hang the loads which act as an effort.

Let the pitch of the screw be  $p$  and  $D$  the diameter of the flanged table on which the load  $W$  is to be placed and lifted.



**SCREW JACK APPARATUS**  
**Fig. LW-11**

Let the table turns through one revolution.

Then, the distance through which load rises in one revolution =  $p$

Effort moved in one revolution =  $\pi D$

$$\therefore V.R = \frac{\pi D}{p}$$

Weight on the table =  $W$  kg

# Applied Mechanics Lab Experiments Manual

**Rolla Clinton Carpenter, Herman  
Diederichs**



## **Applied Mechanics Lab Experiments 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 Applied Mechanics Reviews, 1962 A

*Laboratory Manual of Organic Chemistry for Beginners* Arnold Frederick Holleman, 1913 **Theoretical and Applied Mechanics Report**, 1998 Experimental Engineering and Manual for Testing Rolla Clinton Carpenter, Herman

Diederichs, 1913 *Experiments in the Determination of Mechanical Behavior of Engineering Materials* Louis J.

DiMassa, 1989 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

**Exercises for the Applied Mechanics Laboratory** John Paul KOTTCAMP, 1913 El-Hi Textbooks in Print, 1956

Gulf Conference on Sustainable Built Environment Ali Bumajdad, Walid Bouhamra, Osamah A. Alsayegh, Hasan A.

Kamal, Salem Falah Alhajraf, 2020-04-07 This volume brings together outstanding contributions to the Gulf Conference on Sustainable Built Environment held at the Marina Hotel Kuwait near Kuwait City The Proceedings collects 29 papers on a range of engineering and materials challenges and best practices addressing development of new sustainable building materials performance improvement of structures and tall buildings developing monitoring and analysis techniques and frameworks for existing infrastructure under environmental effects development of long term sustainability plans for building stock and development of energy efficient buildings in the gulf region The Conference was organized by the Kuwait Foundation for the Advancement of Sciences KFAS the Massachusetts Institute of Technology the Kuwait Institute for Scientific Research and Kuwait University **Logging** Ralph Clement Bryant, 1913 *The Electrical World*, 1892

*Whitaker's Cumulative Book List*, 1958 *The Elements of Specification Writing* Richard Shelton Kirby, 1913 **Dodge**

**Idea and Power and Transmission**, 1891 *Sewerage* Amory Prescott Folwell, 1912 **Harmonic Functions** William

Elwood Byerly, 1906 **Outlines of Theoretical Chemistry** Frederick Hutton Getman, 1913 **Subject Guide to Books**

**in Print** ,1993

**Elements of Water Bacteriology** Samuel Cate Prescott,Charles-Edward Amory Winslow,1913

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