

EXPERIMENT NO. 5

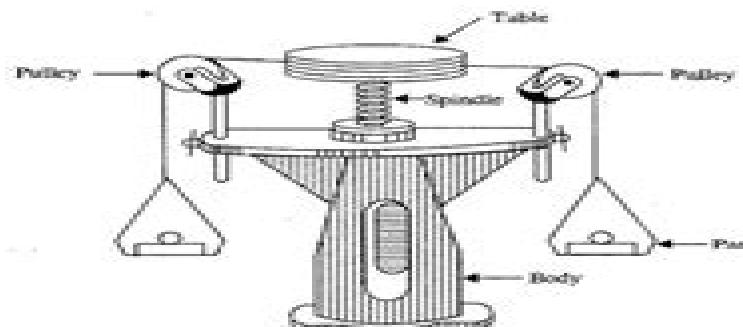
AIM: TO FIND THE MECHANICAL ADVANTAGE, VELOCITY RATIO AND EFFICIENCY OF SIMPLE SCREW JACK.

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 = πD

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

Weight on the table = W kg

Applied Mechanics Lab Experiments Manual

**New Hampshire College of Agriculture
and the Mechanic Arts**

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 *A Laboratory Manual of Organic Chemistry for Beginners* Arnold Frederick Holleman,1913 **Applied Mechanics Reviews** ,1962 **Experimental Engineering and Manual for Testing** Rolla Clinton Carpenter,Herman Diederichs,1913 **Logging** Ralph Clement Bryant,1913

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William Hubert Burr,1913 **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 **Catalogue of the New Hampshire College of Agriculture and the Mechanic Arts** New Hampshire College of Agriculture and the Mechanic Arts,1916 **The Cumulative Book Index** ,1913 **Exercises for the Applied Mechanics Laboratory** John Paul KOTTCAMP,1913 **American Horticultural Manual: Comprising the leading principles and practices connected with the propagation, culture, and improvement of fruits, nuts, ornamental trees, shrubs, and plants in the United States and Canada** Joseph L. Budd,Niels Ebbesen Hansen,1902

Annual Catalog Mississippi Agricultural and Mechanical College,Mississippi State College,Mississippi State University,1904 *Experiments in the Determination of Mechanical Behavior of Engineering Materials* Louis J. DiMassa,1989

Applied Mechanics Lab Experiments Manual Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Applied Mechanics Lab Experiments Manual**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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