

EXPERIMENT NO. 5

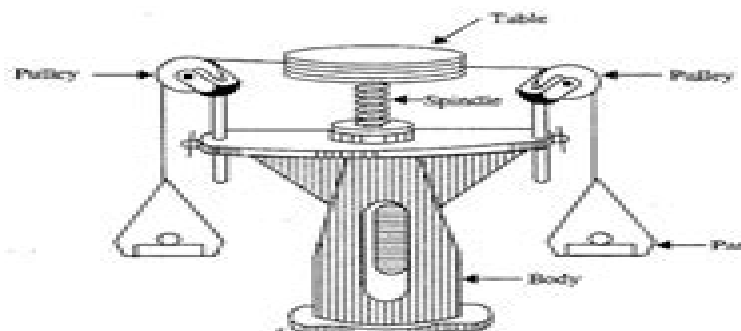
AIM: TO FIND THE MECHANICAL ADVANTAGE, VELOCITY RATIO AND EFFICIENCY OF SIMPLE SCREW JACK.

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

S Ben Porath



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* ,1964 **Logging** Ralph Clement Bryant, 1913 **Elements of Water Bacteriology** Samuel Cate Prescott, Charles-Edward Amory Winslow, 1913 *Harmonic Functions* William Elwood Byerly, 1906 *Experimental Engineering and Manual for Testing* Rolla Clinton Carpenter, Herman Diederichs, 1913 **The Elements of Specification Writing** Richard Shelton Kirby, 1913 **Sewerage** Amory Prescott Folwell, 1912 Suspension Bridges, Arch Ribs and Cantilevers William Hubert Burr, 1913

This book delves into Applied Mechanics Lab Experiments Manual. Applied Mechanics Lab Experiments Manual is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Applied Mechanics Lab Experiments Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Applied Mechanics Lab Experiments Manual
 - Chapter 2: Essential Elements of Applied Mechanics Lab Experiments Manual
 - Chapter 3: Applied Mechanics Lab Experiments Manual in Everyday Life
 - Chapter 4: Applied Mechanics Lab Experiments Manual in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Applied Mechanics Lab Experiments Manual. The first chapter will explore what Applied Mechanics Lab Experiments Manual is, why Applied Mechanics Lab Experiments Manual is vital, and how to effectively learn about Applied Mechanics Lab Experiments Manual.
 3. In chapter 2, the author will delve into the foundational concepts of Applied Mechanics Lab Experiments Manual. The second chapter will elucidate the essential principles that need to be understood to grasp Applied Mechanics Lab Experiments Manual in its entirety.
 4. In chapter 3, the author will examine the practical applications of Applied Mechanics Lab Experiments Manual in daily life. This chapter will showcase real-world examples of how Applied Mechanics Lab Experiments Manual can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Applied Mechanics Lab Experiments Manual in specific contexts. The fourth chapter will explore how Applied Mechanics Lab Experiments Manual is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Applied Mechanics Lab Experiments Manual. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Applied Mechanics Lab Experiments Manual.

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