

### Experiment no 09.

**AIM:** To conduct experiment of trifilar suspension.

**APPARATUS REQUIRED:** Main frame, Trifilar suspension, Weights, Stopwatch, Thread.

#### INTRODUCTION:

**Trifilar Suspension (Torsional Pendulum) :-** It is also used to find the moment of inertia of a body experimentally. The body (say a disc or flywheel) whose moment of inertia is to be determined is suspended by three long flexible wires A, B and C, as shown in fig.-b. When the body is twisted about its axis through a small angle  $\theta$  and then released, it will oscillate with simple harmonic motion. Trifilar suspension is a disc of mass  $m$  (weight  $w$ ) suspended by three vertical cords, each of length  $l$ , from a fixed support. Each cord is symmetrically attached to the disc at the same distance  $r$  from the mass of the disc.

#### THEORY:

The disc is now turned through a small angle its vertical axis, the cords become inclined. On being released the disc will perform oscillations about the vertical axis. At any instant

Let:  $\theta$  = angular displacement of the disc

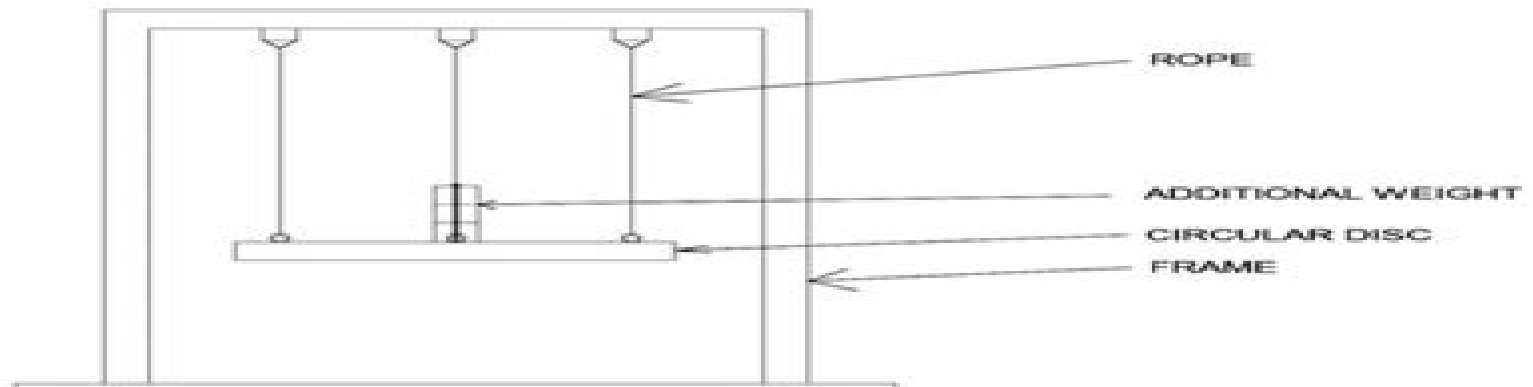
$F$  = tension in each cord  $= w/3$

Inertia torque  $= I \times \alpha$

Restoring torque  $= 3 \times \text{horizontal component forces of each string} \times r$

Inertia torque = restoring torque

### TRIFILAR



# Mechanical Vibration Lab Manual

**Yijin Wang**



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## **Table of Contents Mechanical Vibration Lab Manual**

1. Understanding the eBook Mechanical Vibration Lab Manual
  - The Rise of Digital Reading Mechanical Vibration Lab Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Vibration Lab Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Vibration Lab Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Vibration Lab Manual
  - Personalized Recommendations
  - Mechanical Vibration Lab Manual User Reviews and Ratings
  - Mechanical Vibration Lab Manual and Bestseller Lists
5. Accessing Mechanical Vibration Lab Manual Free and Paid eBooks
  - Mechanical Vibration Lab Manual Public Domain eBooks
  - Mechanical Vibration Lab Manual eBook Subscription Services
  - Mechanical Vibration Lab Manual Budget-Friendly Options

6. Navigating Mechanical Vibration Lab Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanical Vibration Lab Manual Compatibility with Devices
  - Mechanical Vibration Lab Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Vibration Lab Manual
  - Highlighting and Note-Taking Mechanical Vibration Lab Manual
  - Interactive Elements Mechanical Vibration Lab Manual
8. Staying Engaged with Mechanical Vibration Lab Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Vibration Lab Manual
9. Balancing eBooks and Physical Books Mechanical Vibration Lab Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Vibration Lab Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Vibration Lab Manual
  - Setting Reading Goals Mechanical Vibration Lab Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Vibration Lab Manual
  - Fact-Checking eBook Content of Mechanical Vibration Lab Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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