

### 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

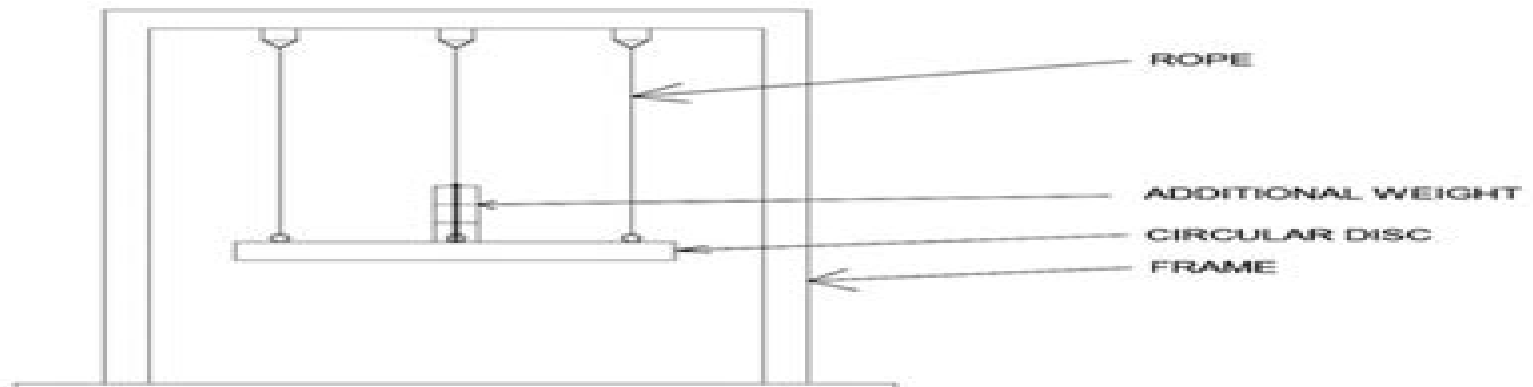
$F$  = tension in each cord  $= w/3$

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

**Joacim Rocklöv**



## **Mechanical Vibration Lab Manual:**

## Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Mechanical Vibration Lab Manual**

In a global inundated with screens and the cacophony of fast transmission, the profound energy and emotional resonance of verbal beauty usually fade into obscurity, eclipsed by the continuous onslaught of noise and distractions. However, situated within the musical pages of **Mechanical Vibration Lab Manual**, a captivating perform of fictional brilliance that impulses with fresh feelings, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, that interesting opus guides readers on a mental odyssey, lightly revealing the latent possible and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative analysis, we shall embark upon an introspective exploration of the book is key subjects, dissect their interesting publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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