

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 θ 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: θ = angular displacement of the disc

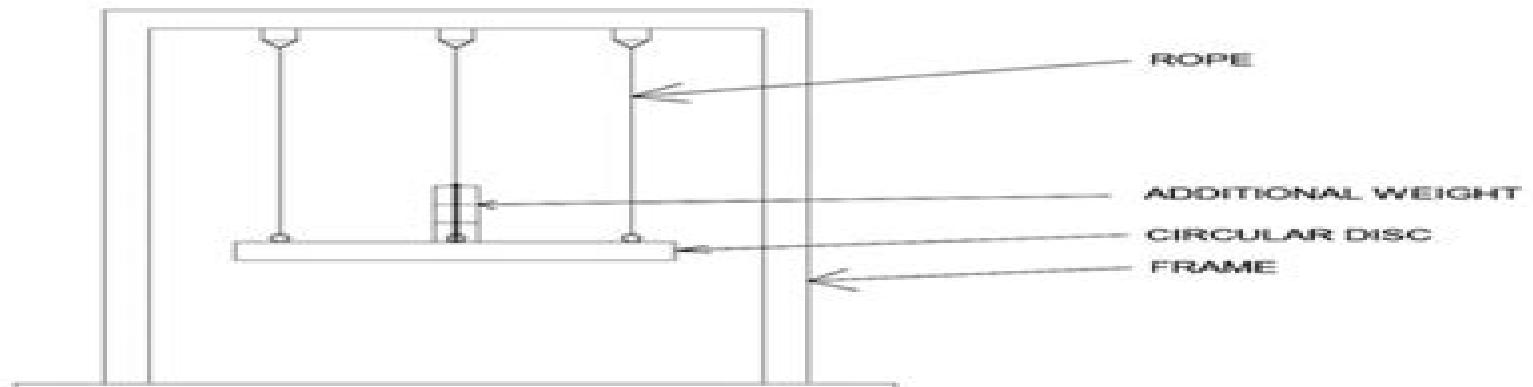
F = tension in each cord $= w/3$

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

Frederick Nicholas Petillo



Mechanical Vibration Lab Manual:

Embracing the Tune of Appearance: An Emotional Symphony within **Mechanical Vibration Lab Manual**

In a global used by monitors and the ceaseless chatter of fast conversation, the melodic elegance and mental symphony developed by the prepared term often disappear into the background, eclipsed by the persistent noise and disruptions that permeate our lives. However, set within the pages of **Mechanical Vibration Lab Manual** a wonderful fictional treasure brimming with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this interesting masterpiece conducts viewers on a psychological trip, skillfully unraveling the concealed tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of the touching examination, we can explore the book is key harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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