

PHYS 222B Introductory Mechanics

222B-1 L. A. THOMAS, JR. AND T. W. K. CHOW

Experiment 1: Rotational Inertia of a Pulley of Mass M suspended From a System of Angled Strings

Part 1: Rotational Inertia of a Pulley of Mass

Equipment Required:

Rotating Table Apparatus, Tapes and Weight set, string (less than 1 m), 25 g, 50 g, 100 g, pulley with photogate beam, angle board, balance, calipers.

Purpose:

The purpose of this experiment is to find the rotational inertia I of a pulley from experimental data and to verify that this value corresponds to the calculated theoretical value.

Theory:

Experimentally, the rotational inertia, I , of a pulley can be given by $I = MR^2$, where M is the mass and R is the radius that mass is attached to the pulley.

To find the rotational inertia experimentally, a known torque is applied to the pulley and the resulting angular acceleration is measured.

Since $\tau = I\alpha$, then $I = \frac{\tau}{\alpha}$, where τ is the applied torque.

The known acceleration is of the hanging mass is the tangential acceleration of the rotating apparatus. The angular acceleration is related to the tangential acceleration as follows: $\alpha = a/R$, where R is the radius of cylinder about which the mass is hung.

τ is the torque caused by the weight hanging from the thread which is wrapped around

the back of the apparatus, and is given by $\tau = rF$, where r is the radius of cylinder about which the thread is wrapped and F is the tension in the thread when the apparatus is rotating.

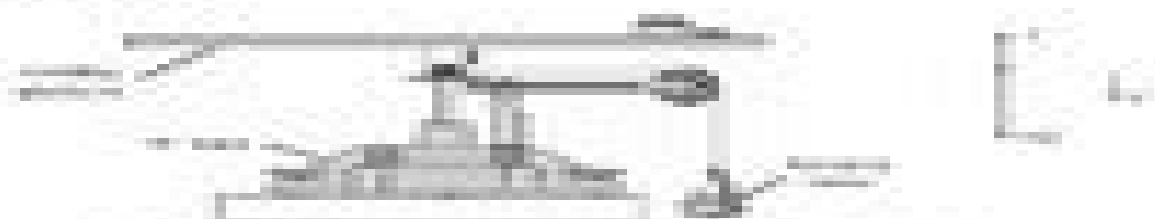


Fig. 1: Rotational Inertia Apparatus and Free Body Diagram

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