

Physics 211 Lab: Rotational Kinematics

Date: _____

Enter your name as it appears in your PSU registration, no nicknames please.

Name: _____ Recitation Section # _____

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Clean Up Check:

After you finish working and completing the lab report, you need to clean and organize your working area. All the members of the group must be present at that time. If you leave the lab before your laboratory instructor performs the check up, **you will be deducted 5 points** from your score for this lab report.

Laboratory Instructor Initials: _____

Reading: Knight: Chapter 4, sections 5-7

Conceptual Understanding Goals: By the end of this laboratory, you should be able to:

- (1) Relate the angular position $\theta(t)$, the angular velocity $\omega(t)$, and the angular acceleration $\alpha(t)$.
- (2) Determine the linear acceleration – both radial and tangential – of a point on a rotating object in terms of the point's radius, angular acceleration, and angular velocity.
- (3) Use Newton's Second Law and the equation for static friction to relate the static friction coefficient to the acceleration at which the maximum static friction is exceeded in a system.

Laboratory Skill Goals: By the end of this laboratory, you should be able to:

- (1) Use the rotary motion sensor to measure the rotational motion of an object.
- (2) Design an experiment to calculate the static friction coefficient between two objects.

Equipment List:

Computer with PASCO Capstone™ and PASCO 550 Universal Interface

Rotating Platform with attached Rotary Motion Sensors

Stickers located at two different radii (4 cm and 10 cm)

Pulley

String



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ML Yell



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