

Conservation of Angular Momentum

INTRODUCTION

In your study of linear momentum, you learned that, in the absence of an unbalanced external force, the momentum of a system remains constant. In this experiment, you will examine how the *angular* momentum of a rotating system responds to changes in the moment of inertia, I .

OBJECTIVES

In this experiment, you will

- Collect angle vs. time and angular velocity vs. time data for rotating systems.
- Analyze the θ - t and ω - t graphs both before and after changes in the moment of inertia.
- Determine the effect of changes in the moment of inertia on the angular momentum of the system.
- Find the moment of inertia of an oddly shaped object.

MATERIALS

Vernier data-collection interface
Logger Pro or LabQuest App
Vernier Rotary Motion Sensor
Vernier Rotary Motion Accessory Kit

ring stand
balance
metric ruler

PRE-LAB

1. Mount the Rotary Motion Sensor to the ring stand. Place the 3-step Pulley on the rotating shaft of the sensor so that the largest pulley is on top. Measure the mass and diameter of the aluminum disk with the smaller hole. Mount this disk to the pulley using the longer machine screw and sleeve (see Figure 1).



Figure 1

2. Connect the sensor and open Logger Pro. The default data-collections settings are appropriate for this experiment.

Conservation Of Momentum Experiment 14 Answers

Paul J. van Leeuwen



Conservation Of Momentum Experiment 14 Answers:

Take-Home Physics: 65 High-Impact, Low-Cost Labs Michael Horton, 2009-05-30 **Energy Research Abstracts** ,1989

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Paul J. van Leeuwen, 2022-02-26 Quantum Physics shows us that we create what we observe Countless experiments confirm that it is our information which manifests reality Matter and time are created by our observation This is not only true when we do experiments in laboratories but it works the same way in everyday reality We manifest our own experiences Science does not prove that our consciousness must be a product of our material brain On the contrary Consciousness emerging from the brain is just a belief This book tells the story how physics did develop from a quest to understand nature into its current highly myopic materialistic paradigm The profound spiritual message of Quantum Physics is ignored to our detriment A wonderful very readable book that will convince thousands upon thousands of serious readers including students of science why consciousness is necessary to understand quantum physics and why materialist science is not adequate I give the book my highest recommendation Amit Goswami PhD author of *The Self Aware Universe* A monumental book A masterpiece in disguise Prof Emer dr Dirk K F Meijer University of Groningen **College Physics** Franklin Miller, 1977 New edition of a

standard college physics textbook **American Journal of Physics** ,1999 **Scientific and Technical Aerospace Reports** ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Physics Physical Science Study Committee, Uri Haber-Schaim, 1976 *Physics Briefs* ,1992 *DGLR/AIAA 14th Aeroacoustics Conference* Hanno H.. Heller, 1992 **Physics** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006

Documents of the Senate of the State of New York New York (State). Legislature. Senate, 1901 **Science Abstracts** ,1928 *Radiologic Science for Technologists* Stewart C. Bushong, 1993 This text aims to bring students up to date with radiologic science Now in its fifth edition it includes new chapters such as image contrast and fast imaging techniques of MRI duplex technology of diagnostic ultrasound and quality assurance in x ray imaging *Proceedings of the National Academy of Sciences of the United States of America* National Academy of Sciences (U.S.), 2003 *Scientific American*

,1874 Journal of Physical Oceanography ,1978 35th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit
,1999 **A Text Book of Physics for the Use of Students of Science and Engineering** John Duncan,Sydney George
Starling,1918

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In some sort of eaten by monitors and the ceaseless chatter of immediate interaction, the melodic elegance and emotional symphony developed by the written word usually diminish into the background, eclipsed by the persistent sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **Conservation Of Momentum Experiment 14 Answers** a marvelous literary treasure overflowing with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, that captivating masterpiece conducts visitors on an emotional trip, well unraveling the concealed melodies and profound affect resonating within each carefully constructed phrase. Within the depths of this emotional review, we can examine the book is main harmonies, analyze their enthralling writing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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