

Intermediate Physics Lab 4: A Higher-Order Mathematical Description of the Simple Pendulum, Comparing Data and Modeling

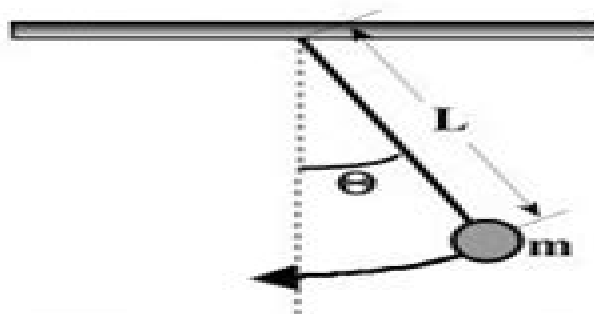
"Why," said the Dodo, "the best way to explain it is to do it." Lewis Carroll in Alice in Wonderland.

Imagination is more important than knowledge. Albert Einstein

Its hard to imagine what knowledge would be like without some imagination. Physics Lab Instructor

Introduction

In examining the behavior of a simple pendulum (below) in a previous (possibly 290) lab, we made the simplifying assumption that, for small initial launch angles, the $\sin\theta$ can be approximated by θ itself.



This gave us a rather simple expression for the period of a simple pendulum, T , that depended on the physical parameters L (length of pendulum), and g (acceleration at the Earth's surface owing to gravity) but not m (the mass of the pendulum bob). The simple expression is arrived at by considering the "return torque" ($\tau = L \cdot mg \sin\theta$), on the oscillator and the inertia which causes it to overshoot equilibrium, in this case the moment of inertia $I = mL^2$. The simple expression is the equation of motion for the pendulum:

$$\ddot{\theta} + \frac{g}{L} \sin\theta = 0 \Rightarrow \ddot{\theta} + \frac{g}{L} \theta = 0 \quad (1)$$

This simple expression can be solved for the period of the pendulum in the usual way, by assuming that t is some periodic function in time such as $A\sin(\omega t + \phi)$, taking it's second derivative, substituting, and solving for ω . This equation constitutes a simple **model** for the pendulum motion, given ω , ϕ and A , we state the mass's position at a time t .

Some assumptions are built into our simple model for the period of a simple pendulum as we have conceived it. An explicit assumption is that the initial (or *launch*) angle of the pendulum, sometimes called its initial displacement, is small. Less than 20° to be more precise. There is

Lab Report Investigating A Simple Pendulum

Arthur L. Caplan, Barbara K. Redman



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America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished

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