



Pendulum Lab Report 3(Final Rough Copy 1)

Introduction:

Pendulums are freely swinging weights hanging from tension carrying mediums fixed at a pivot. Although they modeled using simple harmonic motion to simplify calculations, real world pendulums' case in the real world. Certain quantities such as the period, time-constant, and Q-factor are simplified or omitted from the model.

The first purpose of this lab is to better model the simple harmonic by adding a factor of decay. The quantities used to describe this decay were calculated and estimated from data collected from a variety of data and used to describe the properties of the pendulum. The results were then used to find dependence between certain quantities and verify predicted theories.

The conclusions found from this lab are as follows. The period is found to be mostly constant within a certain range of initial angles of release. The decaying motion of a pendulum with a fixed length was found to be best modeled with an exponentially decaying sinusoidal graph, from which a Q-factor was calculated. This Q-factor, which determines the rate at which the pendulum's amplitude decays, was found to have an intrinsic dependence on the length of the pendulum.

Section 1 (Theory):

The motion of the a pendulum undergoing simple harmonic motion is predicted to be:

Lab Report Investigating A Simple Pendulum

Rachel Sandford



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