My Lab Report

My Name

The Date

My Funny Abstract Title, if any

Put abstract text here. You can go on and on as long as you like but an abstract is supposed to be short, please recall. It should summarize the paper and tantalize the reader into wanting to read the whole thing.

Introduction

This historic experiment measures many things, some better than others.

Theory

Very few people can see an electron, never mind measure it's charge, but we will here. Here's some equations for your amusement, even with labels.

At the terminal velocity, the acceleration is zero, and Newton's second law gives

$$0 = 6\pi r\eta v_g + \frac{4}{3}\pi r^3 \rho_{air} g - \frac{4}{3}\pi r^3 \rho_{oil} g \qquad (1)$$

where v_g is the speed of the drop moving downward.

Equation 1 can be solved for the radius of the drop;

$$r = \sqrt{\frac{9\eta v_g}{2(\rho_{oil} - \rho_{air})g}} \qquad (2)$$

Experiment

You can describe the equipment and what you did here.

For what its worth, I don't care if you rename all these sections something else.

Analysis

Here's a way to get a bunch of parameters to print out with the equal signs lined up neatly.

$$\begin{aligned} \rho_{oil} &= 872 \ \ kg/m^3 \\ \eta &= 1.85x10^{-5} \ \ Ns/m^2 \\ \rho_{air} &= 1.2 \ \ kg/m^3 \end{aligned}$$

And you can certainly insert a Figure

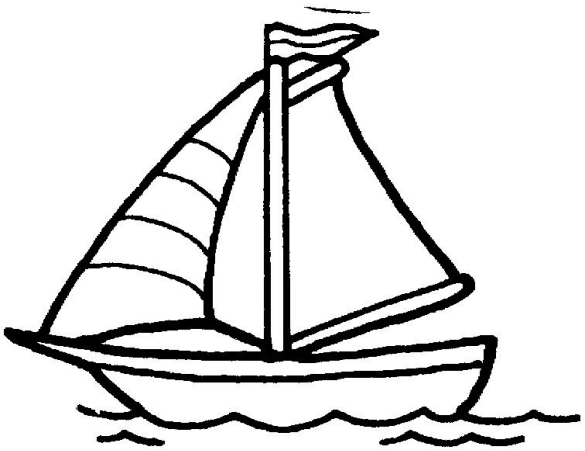

Figure 1: I'd rather be sailing

and then cite it in the text: See Figure 1 for my preferred activity.

References

http://www.xkcd.com/242/