THIS IS THE TITLE

by

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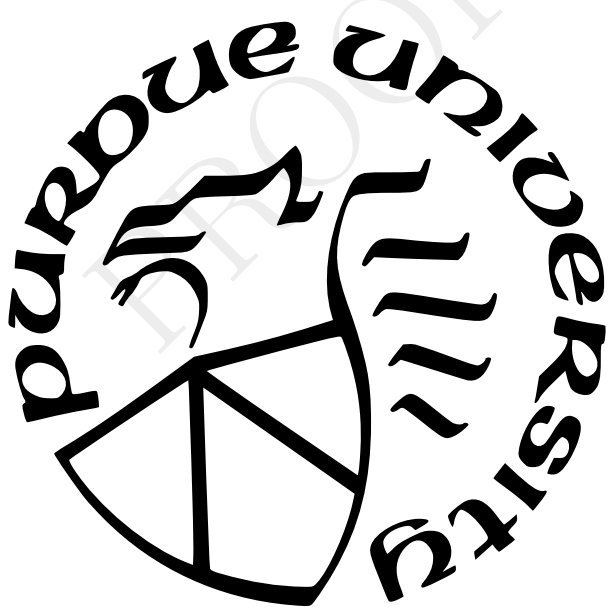
A Dissertation

Submitted to the Faculty of Purdue University

In Partial Fulfillment of the Requirements for the degree of

Doctor of Philosophy



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West Lafayette, Indiana

May 2023

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Here is my dedication

ACKNOWLEDGMENTS

Purdue University's Engineering Computer Network and Graduate School helped fund PurdueThesis development.

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ABSTRACT

PurdueThesis is a LaTeX document class used for master's bypass reports, master's theses, PhD dissertations, and PhD preliminary reports. This template demonstrates how to use PurdueThesis.

1. INTRODUCTION

Experimenting with the available typographic conventions defined in the Purdue file: `pa-typographic-conventions.sty`: these include *Emph First Title* Keys `Literal` Menu Open menu > Preferences **`Shell.sh`**. Now let's try out a footnote[1], one of the fancy TODO notes , and more scary TODO , as well as a a todo error as well as a citation [1]. Note the TODO comments currently only show up in `quick` or `debug` modes (for now).

1.1 Subcaption / Cleveref Testing

Here is a very important and informative figure for Orion. You can see in Figure 1.1 that there is both Figure 1.1(a) and Figure 1.1(b)! There is also important information in Table 1.1. If you're confused, then Equation (1.1) should clarify things. Some other ways to put it: Equations (1.1) and (1.2) and Equations (1.1) to (1.3).

1.1.1 Important Math

$$e^{i\pi} + 1 = 0 \tag{1.1}$$

$$a^2 + b^2 = c^2 \tag{1.2}$$

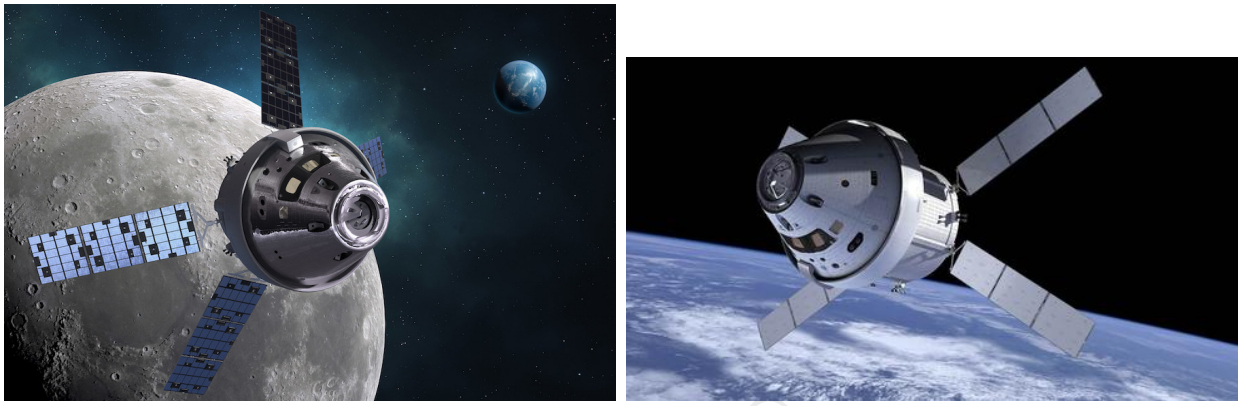
$$\frac{df}{dt} = \lim_{h \to 0} \frac{f(t+h) - f(t)}{h} \tag{1.3}$$

1.1.2 Numbers/Units

Some of the number formats available: -10^{10}. 2×4. 10 to 11. 12.3°.

Experimenting with the siunits package: $8\ \mathrm{kg\,m\,s^{-2}}$. 9N. $2.3 \times 10^{27}\ \mathrm{kg}$. $1.345\ \frac{\mathrm{C}}{\mathrm{mol}}$.

[1] ↑I'm a footnote!



(a) Orion 1 (b) Orion 2

Figure 1.1. Two images of Orion: (a) and (b).

Table 1.1. Sample Table

Sample x	Table 2

A subsubsection

A subsubsection for testing out the table of contents

A paragraph

What happens for a paragraph in the table of contents?

1.1.3 Custom variables

Variables can be defined as functions in t0-template » te4-custom-variables.tex

The rotating x axis is clearly the best of all axes. But even better is the $\boldsymbol{x}$ vector and the $\hat{x}$ direction! See the appenix in Debug mode for details

1.1.4 Custom colors

There are a variety of available colors from Purdue's branding[2] like: Boilermaker Gold, Rush. This example document also include the Tableau colors[3]. For example, tab-blue and tab-red.

1.1.5 Acronyms

Acronyms handled through `glossaries`, and defined in t0-template » te6-acronyms.tex. For example, the first time we will refer to the Circular Restricted Three Body Problem (CR3BP), and in the future only say CR3BP.

[2] ↑see https://marcom.purdue.edu/our-brand/visual-identity/
[3] ↑used in matplotlib - https://matplotlib.org/3.4.1/gallery/color/named_colors.html

2. BACKGROUND

2.1 Dynamical Model

2.2 Blockchains, or Whatever

VITA

[Put a brief autobiographical sketch here.]

REFERENCES

[1] K. C. Howell, "Three-dimensional, periodic, 'halo' orbits," *Celestial Mechanics*, vol. 32, no. 1, pp. 53–71, 1984. DOI: 10.1007/BF01358403.