THIS IS THE TITLE

by

Henri Poincaré

A Dissertation

Submitted to the Faculty of Purdue University

In Partial Fulfillment of the Requirements for the degree of

Doctor of Philosophy



School of Aeronautics and Astronautics West Lafayette, Indiana May 2023

THE PURDUE UNIVERSITY GRADUATE SCHOOL STATEMENT OF COMMITTEE APPROVAL

Dr. Kathleen C. Howell, Chair

School of Aeronautics and Astronautics

Dr. Carolin Frueh

School of Aeronautics and Astronautics

Dr. Dengfeng Sun

School of Aeronautics and Astronautics

Dr. James M. Longuski

School of Aeronautics and Astronautics

Approved by:

Dr. Gregory A. Blaisdell

TABLE OF CONTENTS	
BLES	4
URES	5
	6
Aption / Cleveref Testing	
OUND	10
	13
	14
	ELES URES CTION Option / Cleveref Testing Important Math Numbers/Units A subsubsection Custom variables OUND mical Model chains, or Whatever

	LIST OF TABLES
1.1	Sample Table

LIST OF FIGURES			
1.1	Two images of Orion:	(a) and (b) 8	

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 footnote¹, one of the fancy TODO notes, and more scary TODO, as well as 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

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

$$a^2 + b^2 = c^2 (1.2)$$

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

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 kg m s⁻². 9N. 2.3×10^{27} kg. $1.345 \frac{C}{mol}$.

Do I really need this?

Be careful here

This is wrong!

¹↑I'm a footnote!

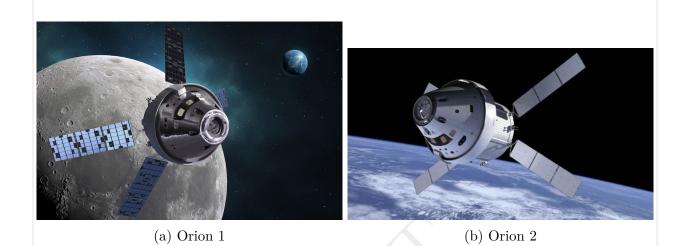


Figure 1.1. Two images of Orion: (a) and (b).

Table 1.1. Sample Table

Sample	Table
x	2

ı
A subsubsection
A subsubsection for testing out the table of contents
${f A}$ paragraph
What happens for a paragraph in the table of contents?
1.1.3 Custom variables
Variables can be defined as functions in to-template te4-custom-variables.tex
The rotating x axis is clearly the best of all axes. But even better is the x vector as
the \hat{x} direction!

2. BACKGROUND

- 2.1 Dynamical Model
- 2.2 Blockchains, or Whatever

User-Defined Variables

Note: Currently does not support Greek letter sorting

- β : \angleTwo
- α : \angleOne
- Π : \angleFour
- Γ : \angleThree
- $C: \setminus \text{otherCvar}$
- \mathbb{C} : \Complex
- \mathbb{E} : \ExpVal
- \mathcal{H} : \hamiltonian
- \mathcal{L} : \lagrangian
- $N: \n Body$
- \mathcal{N} : \Normal
- \mathbb{R} : \Real
- \mathcal{U} : \Uniform
- $X: \xDim$
- $Y: \$ yDim
- $Z: \zDim$
- $x: \xNd$
- \boldsymbol{x} : \vectorFormat
- \hat{x} : \unitVectorFormat
- \dot{x} : \velocityFormat
- \ddot{x} : \accelFormat
- x^2 : \xSquared
- x_2 : \xSubTwo
- x_2^2 : \xSubTwoSquared
- $y: \$ \yNd
- y^2 : \aVectorSquared

z : \zNd	

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.