

THIS IS THE TITLE

by

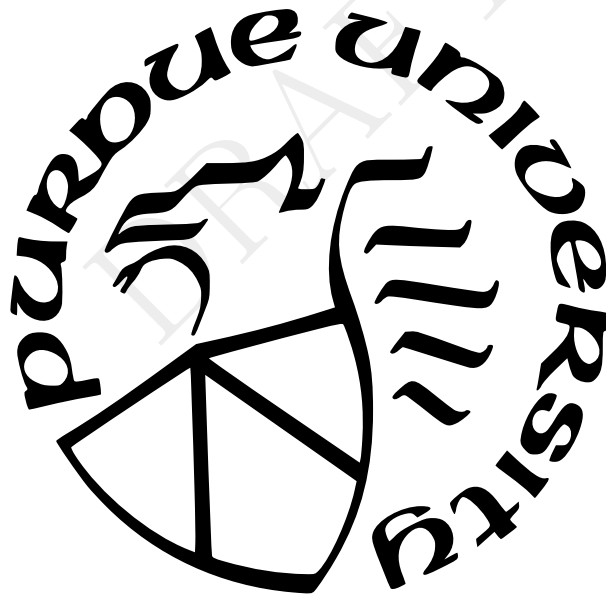
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School of Aeronautics and Astronautics

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ABSTRACT

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

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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 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

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

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

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

1.1.2 Numbers/Units

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

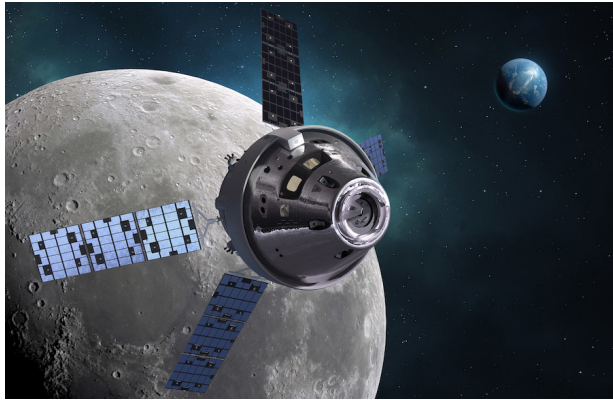
Experimenting with the siunits package: 8 kg m s^{-2} . 9N . $2.3 \times 10^{27} \text{ kg}$. $1.345 \frac{\text{C}}{\text{mol}}$.

¹[↑](#)I'm a footnote!

Do I really need this?

Be careful here

This is wrong!



(a) Orion 1



(b) Orion 2

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

Table 1.1. Sample Table

Sample	Table
x	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!

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2. BACKGROUND

2.1 Dynamical Model

2.2 Blockchains, or Whatever

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User-Defined Variables

Note: Currently does not support Greek letter sorting

β : \angleTwo

α : \angleOne

Π : \angleFour

Γ : \angleThree

C : \otherCvar

\mathbb{C} : \Complex

\mathbb{E} : \ExpVal

\mathcal{H} : \hamiltonian

\mathcal{L} : \lagrangian

N : \nBody

\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

\boldsymbol{y}^2 : \aVectorSquared

z: \zNd

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VITA

[Put a brief autobiographical sketch here.]

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REFERENCES

- [1] K. C. Howell, “Three-dimensional, periodic, ‘halo’ orbits,” *Celestial Mechanics*, vol. 32, no. 1, pp. 53–71, 1984. DOI: [10.1007/BF01358403](https://doi.org/10.1007/BF01358403).

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