

This is the Title

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Chapter 1

Introduction

1.1 Basics

This is text. This is **bold** text. This is text with *emphasis*. This is “double quotes”.

Paragraphs are separated by one or more blank lines.

1.2 Math & Citations

Examples of inline math are $\alpha = \sqrt{\gamma^2 + I^2}$ and $\vec{v} = 7\hat{x} - 5\hat{y}$ and $\vec{u} \times \vec{v}$ and $c = (2.99 \pm 0.01) \times 10^8$ m/s. One example of block (display) math is

$$\int_0^1 x^2 dx = \frac{1}{3}, \quad (1.1)$$

and a second example is

$$\xi = \alpha \left(\frac{1}{\omega_0^2 + \omega^2} \right). \quad (1.2)$$

Note how block math is punctuated like words in a sentence! The block math equations are automatically numbered. We can reference Eq. 1.1 or Eq. 1.2 by inserting labels in the block, but then we must compile L^AT_EX twice.

We can readily cite articles [1] and books [2] and URLs [3] in our bibliography, but now we must compile L^AT_EX, BibT_EX, L^AT_EX, L^AT_EX.

1.3 Figures & Tables

We can also include figures, but first we need to use package “graphicx” under document class. We can reference Fig. 1.1 like equations. All figures should have captions.

Finally, we can also include tables, such as Table 1.1. Like figures, we can also *attempt* to force their positions.

Bibliography

- [1] Alain Chenciner and Richard Montgomery. A remarkable periodic solution of the three-body problem in the case of equal masses. *Annals of Mathematics*, 152:881–901, 2000.
- [2] James Gleick. *Chaos: Making a New Science*. Penguin Books, New York, New York, 1988.
- [3] John F. Lindner. The Martian. <http://woosterphysicists.scotblogs.wooster.edu/2015/10/15/the-martian/>, 2015. [Online; accessed 2015-December-8].