

Introduction to L^AT_EX

ECE 758 — Thursday, 1:30 — T. Pavlic (instructor)

Table 4:

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Introduction

This document has some appendices. For example, [Appendix A](#) is a glossary, and [Appendix B](#) gives some parts, and [Appendix C](#) has some other things.

Some Subsections

We can have lower-level sections and subsections and subsubsections and paragraphs...

Some Math

Some in-line math might like like $x_0 = 5$, while an unnumbered and displayed equation could look like

$$\sin(T) = \int_0^T \cos(t) dt.$$

If we want to refer to an equation later, we better number it, like

$$\exp(it) \triangleq e^{it} = \cos(t) + i \sin(t) \tag{1}$$

and

$$\Re(e^{it}) = \cos(t). \tag{2}$$

Of course, giving both Equations (1) and (2) is silly because [Equation \(2\)](#) is obvious from [Equation \(1\)](#).

Some Figures

I might also want to include figures, like [Figure 1](#).

A picture could be here.

Figure 1: Some figure.

More Information

We can refer to [Figure 1](#) from anywhere in the document. In fact, we can still refer to [Equation \(1\)](#), and each of these references is hyperlinked to the appropriate target within the document.

Conclusions

We put some conclusions here.

A Glossary

PID Proportional–Integral–Derivative, a control scheme combining aspects of lead–lag compensation in such a way that can be easily tuned in the field

locus a curve made up of a set of related points (e.g., a set of points that each make a certain polynomial equal to zero for different values of some parameter)

B Data

Check out [Table B.1](#).

Frequency	Gain	Phase Shift
5 Hz	5	-10°
15 Hz	5	-15°
1 kHz	0.5	-90°

Table B.1: Some data

Notice how [Table B.1](#) has a number that includes the appendix. When we turn on numbering this way, the numbers reset to 1 each time we enter a new appendix.

B.1 Section in Appendix

Of course, we can divide up each appendix as well.

B.1.1 And more

We can have deeper divisions too.

C Other Things

We might find extra equations here, like

$$x_0 = \frac{-b + \sqrt{b^2 - 4ac}}{2a} \quad \text{and} \quad x_1 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}. \quad (\text{C.1})$$