Worksheets

- Double Tracking Antennas for Drone Communication -

Control and Automation Msc.

Group 832

Aalborg University
Electronics and IT

Here you can write something about which tools and software you have used for typesetting the document, running simulations and creating figures. If you do not know what to write, either leave this page blank or have a look at the colophon in some of your books.

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AALBORG UNIVERSITY
STUDENT REPORT

Title:
Project Title

Theme:
Scientific Theme

Project Period:
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Author 3

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Supervisor 1
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Abstract:

Here is the abstract

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AALBORG UNIVERSITET
STUDENTERRAPPORT

Titel:
Rapportens titel

Tema:
Semestertema

Projektperiode:
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Her er resuméet

Contents

Todo list

Preface

Here is the preface. You should put your signatures at the end of the preface.

Aalborg University, February 9, 2016

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Chapter 1

Introduction

Here is the introduction. The next chapter is chapter 3.
a new paragraph

1.1 Examples

You can also have examples in your document such as in example 1.1.

Example 1.1 (An Example of an Example)
Here is an example with some math

$$0 = \exp(i\pi) + 1 \,. \tag{1.1}$$

You can adjust the colour and the line width in the `macros.tex` file.

1.2 How Does Sections, Subsections, and Subsections Look?

Well, like this

1.2.1 This is a Subsection

and this

This is a Subsubsection

and this.

A Paragraph You can also use paragraph titles which look like this.

A Subparagraph Moreover, you can also use subparagraph titles which look like this. They have a small indentation as opposed to the paragraph titles.

Is it possible to add a sub-subparagraph?

I think that a summary of this exciting chapter should be added.

1

Chapter 2

Scenario

2.1 Communication

The free space path loss (FSPL) is the loss in signal strength that occurs when an electromagnetic wave travels over a line of sight path in free space. In these circumstances there are no obstacles that might cause the signal to be reflected, refracted, or that might cause additional attenuation. Equation 2.1 represents the loss in signal strength.

$$L = 20log\left(\frac{4\pi d}{\lambda}\right) \tag{2.1}$$

The wave length can also be described by a relationship between the frequency and the velocity which is the light speed because radio waves are electromagnetic waves. This relationship is described by the equation 2.2.

$$\lambda = \frac{c}{f} \tag{2.2}$$

Considering an area of a

$$\lambda = \frac{c}{f} = \frac{3 \times 10^8}{f \times 10^6} = \frac{300}{f} = \frac{3}{10f} \tag{2.3}$$

2.2 Rescue missions

2.2.1 What do they do today?

2.2.2 Compare the rescue missions

2.3 Pipeline survey

The pipeline survey could be to transport oil from a factory to another facility. To ensure that there is no thiefs that want to steal the oil, they have to hire people to patrol. Instead they could use a drone to search the area. Potential danger

Figure 2.1: Pipeline survey

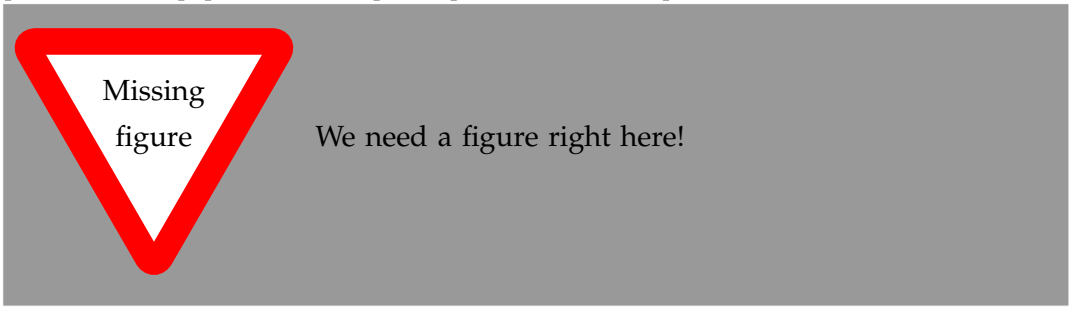
- Terrorist
- Thiefs

Chapter 3

Chapter 2 name

Here is chapter 2. If you want to leearn more about LaTeX 2_ε, have a look at [**Madsen2010**], [**Oetiker2010**] and [**Mittelbach2005**].

I think this word is misspelled



Chapter 4

Conclusion

In case you have questions, comments, suggestions or have found a bug, please do not hesitate to contact me. You can find my contact details below.

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Appendix A

Appendix A name

Here is the first appendix