
Worksheets

- Double Tracking Antennas for Drone Communication -

Control and Automation Msc.
Group 832

Aalborg University
Electronics and IT

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STUDENT REPORT

Title:

Project Title

Abstract:

Here is the abstract

Theme:

Scientific Theme

Project Period:

Fall Semester 2010

Project Group:

XXX

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Author 2

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Supervisor 1

Supervisor 2

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STUDENTERRAPPORT

Titel:

Rapportens titel

Abstract:

Her er resuméet

Tema:

Semestertema

Projektperiode:

Efterårssemestret 2010

Projektgruppe:

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Deltager(e):

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Rapportens indhold er frit tilgængeligt, men offentliggørelse (med kildeangivelse) må kun ske efter aftale med forfatterne.

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

Scenario

1.1 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 1.1 represents the loss in signal strength.

$$L = 20 \log \left(\frac{4\pi d}{\lambda} \right) \quad (1.1)$$

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 1.2.

$$\lambda = \frac{c}{f} \quad (1.2)$$

Considering an area of a

$$\lambda = \frac{c}{f} = \frac{3 \times 10^8}{f \times 10^6} = \frac{300}{f} = \frac{3}{10f} \quad (1.3)$$

1.2 Rescue missions

1.2.1 What do they do today?

1.2.2 Compare the rescue missions

1.3 Pipeline survey

The pipeline survey could be to transport oil from a factory to another facility. To ensure that there is no thieves 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 1.1: Pipeline survey

- Terrorist
- Thiefs

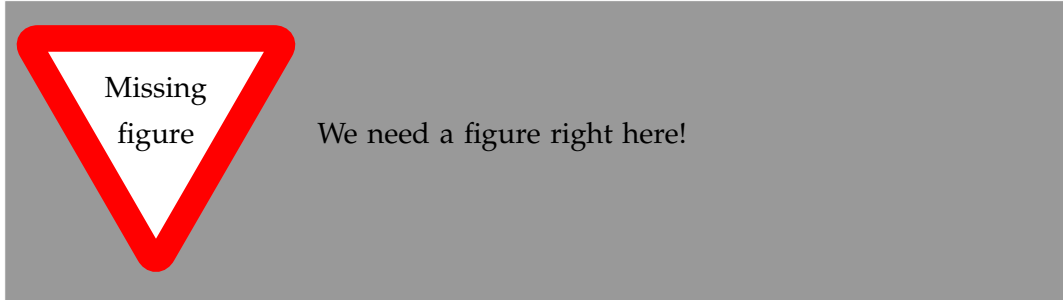
1.4 Communication

Chapter 2

Chapter 2 name

Here is chapter 2. If you want to learn more about $\text{\LaTeX}2_{\epsilon}$, have a look at [Madsen2010], [Oetiker2010] and [Mittelbach2005].

I think this word is misspelled



Chapter 3

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