Master of Science Thesis

Title
Subtitle

N.N. Vo

January 17, 2017

Delft Center for Systems and Control

Delft University of Technology

Title
Subtitle

Master of Science Thesis

For obtaining the degree of Master of Science in Mechanical Engineering at Delft University of Technology

N.N. Vo

January 17, 2017

Faculty of Mechanical, Maritime and Materials Engineering · Delft University of Technology

The work in this literature survey was supported by Alten. Their cooperation is hereby gratefully acknowledged.

Delft University of Technology

Copyright © Delft Center for Systems and Control
All rights reserved.

Delft University Of Technology
Delft Center for Systems and Control

The undersigned hereby certify that they have read and recommend to the Faculty of Mechanical, Maritime and Materials Engineering for acceptance a thesis entitled **"Title"** by **N.N. Vo** in partial fulfillment of the requirements for the degree of **Master of Science**.

Dated: January 17, 2017

Supervisor: _____
dr.ir. T. Keviczky

Readers: _____
ir. P. Ritzen

Abstract

This is an abstract

Acknowledgements

I would like to thank my supervisors dr.ir. T. Keviczky from DCSC and ir. P. Ritzen from Alten Nederland B.V. for their assistance during the writing of this thesis. I would also ...

Delft, University of Technology N.N. Vo
January 17, 2017

Table of Contents

List of Figures

List of Tables

Chapter 1

Introduction

This is a LaTeXthesis and this is Chapter 1. If you want to know more about LaTeXyou better read [**?**]. It contains an acronym of the Delft University of Technology (DUT). The DUT is our University.

****
Aim and Motivation
State of the art methods
Research and Engineering goals
Organization of the report
****

Chapter 2

System Modeling

****
QR Model
System Identification
Model Validation?
Conclusion
****

Chapter 3

Control Design

****
Control Schemes
State Estimation
Benchmark with Linear Control
Nonlinear Geometric Control. Error functions. Tracking controllers.
Trajectory Generation by minimizing Snap Trajectory. QP.
Conclusion
****

Chapter 4

Experimental Setup and Results

****
Software
Hardware
Results
Conclusion
****

Chapter 5

Conclusions and Future Work

****
Summary
Conclusions
Thesis Contribution
Recommendations
Future work **********

Part I

First Part

Chapter 6

First Real Chapter

superscripts can be put in the nomenclature list. Other things can also be added to the nomenclature list of Delft University of Technology (DUT)

6-1 First section

This is the section. Referring to equations, figures and tables can easily be done by the commands `\eqnref{}`, `\figref{}` and `\tabref{}`.

$$H(s) = \frac{1}{s+2} \tag{6-1}$$

You see? Refer to equations like this Eq. (6-1).

6-1-1 The first subsection

The first sub-subsection with a very very very long title, but in the table of contents one can only see the short title

Nice, ain't it?

A paragraph.

Part II

Second part

Chapter 7

Second part chapter

Figure 7-1: this is a very long line to test if the table of figures will wrap the line or will continue to go over the border of the page

Chapter 8

TEMP second part chapter this is a very long line to test if the table of figures will wrap the line or will continue to go over the border of the page

New chapter gives a full acronym Delft University of Technology (DUT).

$$1 = 2 \tag{8-1}$$
$$x = 5 \tag{8-2}$$
$$y = \theta \tag{8-3}$$

Chapter 9

Second second part chapter

9-1 Section

This is a test for nomenclature $A(s)$
a_f, b_f, c_f and d_f
a_b

9-2 Main equations

$$a = \frac{N}{A} \tag{9-1}$$

The equation $\sigma = ma$ follows easily.

Appendix A

The back of the thesis

A-1 An appendix section

A-1-1 An appendix subsection with C++ Listing

```
//
// C++ Listing Test
//

#include <stdio.h>

for(int i=0;i<10;i++)
{
    cout << "Ok\n";
}
```

A-1-2 A MatlabListing

```
%
% Comment
%
n=10;
for i=1:n
    disp('Ok');
end
```

Appendix B

Yet another appendix

B-1 Test section (again?)

Ok, all is well.

Bibliography

Index

Nomenclature

σ	The total mass of angels per unit area
A	The area of the needle point
a	The number of angels per unit area
m	The mass of one angel
N	The number of angels per needle point
$A(s)$	Answer function
a_b	Another variable
a_f, b_f, c_f and d_f	The variables I am trying to group

Acronyms

DUT Delft University of Technology