

**Universidade de Lisboa  
Instituto Superior Técnico**

**Thesis Title that describes the subject studied.**

Optional Subtitle

**Full Name**

**Supervisor :** Doctor Full Name  
**Co-Supervisor :** Doctor Full Name

**Thesis specifically prepared to obtain the PhD Degree in  
Mechanical Engineering**

**Draft**

**November 2017**



# Abstract

The Objective of this Work ... (English)

# Keywords

Keywords (English)



# Resumo

O objectivo deste trabalho ... (Português)

# Palavras Chave

Palavras-Chave (Português)



# Acknowledgments

I would like to thank the Academy, bla bla bla..





***Anyone who has never made a mistake has never tried anything new.***

Albert Einstein



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# List of Symbols



# 1

## Introduction

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## **1.1 Motivation**

Motivation Section.

## **1.2 State of The Art**

State of The Art Section.

### **1.2.1 Dummy Subsection A**

State of Art Subsection A

### **1.2.2 Dummy Subsection B**

State of Art Subsection B

## **1.3 Original Contributions**

Contributions Section.

## **1.4 Thesis Outline**

Outline Section.

# 2

## A Chapter

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*Present the chapter content.*

## 2.1 Section A

### 2.1.1 Subsection A

This would be a citation [? ].

**acro!** (**acro!**)

**acro!** (**acro!**)

**acro!**

**acro!**

**acro!s**

As seen in [? ]. *Enfatizar*

### 2.1.2 Subsection B



**Figure 2.1:** Dummy Figure Caption.

Remember you can change the reference style. Another dummy citation [? ].

## 2.2 Section B

### 2.2.1 Subsection A

The model described can also be represented as

$$\dot{\mathbf{x}}(t) = \mathbf{T}\mathbf{z}(y), \mathbf{y}(0) = \mathbf{y}_0, z \geq 0 \quad (2.1)$$

where

$$\mathbf{A} = \begin{bmatrix} -(a_{12} + a_{10}) & a_{21} \\ a_{12} & -(a_{21} + a_{20}) \end{bmatrix}, \mathbf{x} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} \quad (2.2)$$



## 2.2.2 Subsection B

**Table 2.1:** Dummy Table.

| Vendor Name          | Short Name              | Commercial Name  | Manufacturer |
|----------------------|-------------------------|------------------|--------------|
| Text in Multiple Row | ABC                     | ABC <sup>®</sup> | ABC SA       |
|                      | DEF                     | DEF <sup>®</sup> | DEF SA       |
|                      | GHF                     | GHF <sup>®</sup> | GHF SA       |
| Text in Single Row   | IJK                     | IJK <sup>®</sup> | IJK SA       |
| Frescos SA           | LMN                     | LMN <sup>®</sup> | LMN SA       |
| Carros Lda.          | Text in Multiple Column |                  |              |



# 3

## **Conclusions and Future Work**

## Conclusions Chapter



## **Title of AppendixA**

