

The Title of My Thesis

A thesis submitted in partial fulfilment of the
requirements for the award of the degree

**Bachelor of Engineering (Electrical), Bachelor of
Mathematics**

from

University of Wollongong

by

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**School of Electrical, Computer and Telecommunications
Engineering**

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Supervisor: Dr John Smith

Abstract

According to some people, the abstract should be approximately 300 words, and no more than 700 words. It should be an ‘Informative Abstract’.

Acknowledgements

I would like to thank the Flying Spaghetti Monster for his guidance and constant inspiration . . .

Statement of Originality

I, Joe E. Blogs, declare that this thesis, submitted as part of the requirements for the award of Bachelor of Engineering, in the School of Electrical, Computer and Telecommunications Engineering, University of Wollongong, is wholly my own work unless otherwise referenced or acknowledged. The document has not been submitted for qualifications or assessment at any other academic institution.

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Abbreviations and Symbols

g	Airgap, mm
g_e	Equivalent airgap, mm
J	Current Density, amps/metre
L_R	Rotor stack length, mm
N_s	Number of Slots per Pole Pair
θ_m	Mechanical angle, radians
θ, θ_e	Electrical angle, radians
θ_p	Pole Arc angle, radians
p	Pole pairs
R	Stator radius, mm
\mathfrak{R}_l	Leakage Reluctance, amps/weber/metre
\mathfrak{R}	Reluctance amps/weber
μ_o	Permeability constant, $4\pi \times 10^{-7}$ amps/metre

List of Changes

Section	Statement of Changes	Page Number
Abstract	Complete re-write because the abstract that was produced for Autumn session was complete nonsense.	ii
Glossary	Changed to single spacing instead of double	viii
1	Included a blurb about how this is a new version of the ECTE45x style etc.	1
References	Using a 10pt font and various other space-saving features.	5

Chapter 1

The First Chapter

When needing to talk about different sections of your report you can call them using their reference label such as Chapter number ??chap:first.

For your many citations of different papers, articles and books. There are two styles, one is shown like ...Honsinger [1], and the other shown like [2].

1.1 First Section in Chapter

This is section 1.1, they are the next level down from a Chapter!

1.2 Another Section in the Chapter

1.2.1 First Subsection

Sections can decrease in ranking by adding 'sub' in front.

First Subsubsection

This is an example of a subsubsection. You wouldn't want to descend much further than this. Subsubsections are not numbered and do not appear in the table of contents.

Figures

This section will not be included in the Table of Contents as it includes a * out the front

Figure 1.1 is an example of a figure containing an image.

1.3 Minor Equations

And now for some handy math hints via equation examples:

$$A = \frac{1}{\sum_{k=1}} \tag{1.1}$$

$$A = n^{\frac{1}{3}} \tag{1.2}$$

$$A = n^{\frac{1}{3}} \max_{k=1} \tag{1.3}$$

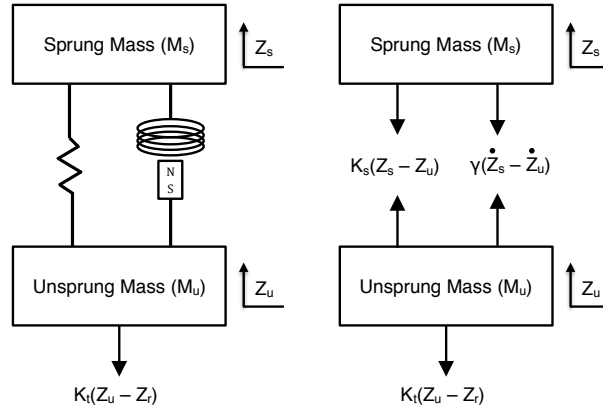


Figure 1.1: Caption for the text body. We can make this one really really long in order to describe everything about the figure for which this caption references, noting that the caption for the index really should be much shorter.

1.4 Bulk Text

Here is some bulk text to see how stylings change across different pages.

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Chapter 2

Another Chapter

This is Chapter number 2.

2.1 First Section in Chapter

This is section 2.1.

2.2 Another Section in Another Chapter

We're very keen so we are referencing Table 2.1

		TO	
		AC	DC
FROM	AC	Cycloconverter	Rectifier
	DC	Inverter	Chopper

Table 2.1: Classification of Conversion Circuits

2.3 Complicated Equations

One thing that L^AT_EX is really good at is typesetting mathematics.

$$\frac{d^2\Phi_q(\theta)}{d\theta^2} - \frac{2\mu_o R^2 L_R}{p^2 g_e} \Phi_q(\theta) + \frac{\mu_o R^2 L_R}{p^2 g_e} [J(\theta) - J(\pi - \theta)] = 0 \quad (2.1)$$

Arrays are used for really long equations.

$$2RJ_q = 2A \left[\frac{\Re_q R}{\gamma} (e^{\gamma \frac{\theta_p}{2}} - e^{-\gamma \frac{\theta_p}{2}}) + p \Re_{side} (e^{\gamma \frac{\theta_p}{2}} + e^{-\gamma \frac{\theta_p}{2}}) \right] + \frac{4cJ_q}{b+1} \left[\Re_q R \sin \frac{\theta_p}{2} + p \Re_{side} \cos \frac{\theta_p}{2} \right] \quad (2.2)$$

2.4 Code Blocks

```
1  #include <iostream>
2
3  int main() { std::cout << "Hello World!";
4  return 0;}
```

Bibliography

- [1] V. B. Honsinger. The inductances L_d and L_q of reluctance machines. *IEEE Transactions on Power Applications and Systems*, PAS-90(1):298–304, January/February 1971.
- [2] Energy and Environmental Economics Inc, and EPRI Solutions Inc. Value of distribution automation applications, April 2007. URL <http://www.energy.ca.gov/2007publications/CEC-500-2007-028/FCEC-500-2007-028.PDF>. Last viewed 6th September, 2008.

Appendix A

An Appendix

This is an Appendix. In particular, it is Appendix A. In particular it should be your Project Plan and Specification. Notice that the numbering of appendices is based A, B, C ... etc.

Appendix B

Another Appendix

This is another Appendix, namely Appendix B. This appendix should be your Logbook Summary Signature Sheet.