A simple AAU Template for a Collection of Papers Ph.D. Thesis

Ph.D. Dissertation

Author

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Curriculum Vitae

Author name

Here is the CV text.

Curriculum Vitae

Abstract

English abstract

Resumé

Danish Abstract

Contents

Todo list

Preface

As my background does (did) not lie in mathematics, physics or computer science, which – trust me – were three equally crucial components in creating the result of this project, I added a, say, more pedagogical section at the end of this thesis. These tutorials are a result of the things that I learned and (hopefully) explain topics such as *Energy Analysis*, *Stability Analysis*, etc. in a way so that others with the same background will be able to understand what is going on.

Name
Aalborg University, February 6, 2020

Part I

Introduction

Introduction

1 History of bowed strings

In static bow-string-interaction models, the friction force is defined as a function of the relative velocity between the bow and the string only. The first mathematical description of friction was proposed by Coulomb in 1773 [**?**] to which static friction, or *stiction*, was added by Morin in 1833 [**?**] and viscous friction, or velocity-dependent friction, by Reynolds in 1886 [**?**]. In 1902, Stribeck found a smooth transition between the static and the coulomb part of the friction curve now referred to as the Stribeck effect [**?**]. The latter is still the standard for static friction models today.

2 To do thingies

- Think about how to define real-time.
- Create an intuition for different parts of the equation

Intuition for the frequency dependent damping term $+2\sigma_1 \partial_t \partial_x^2 u$:

- Take the frequency independent damping term $2\sigma_0 \partial_t u$
- The effects of the damping increases with an increase of either σ_1 ∂_t or ∂_x^2.
- $\partial_t \partial_x^2 u$ can be interpreted as the rate of change of the curvature of the string.
- If this value is more positive, i.e., the rate of change of the curvature is

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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Denmark

References

Part II

Models

Models

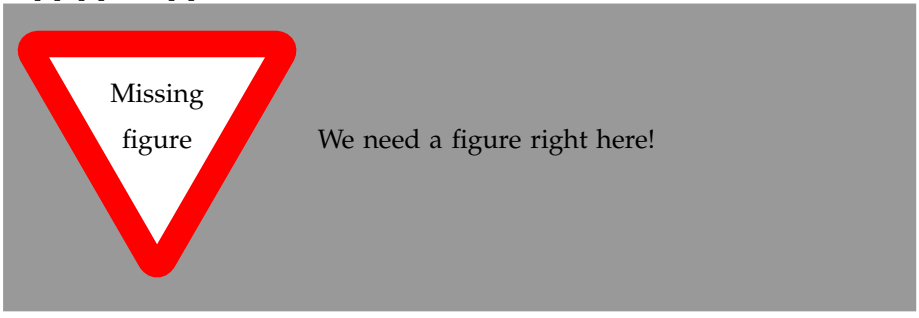
4 Bow Models

As opposed to less complex bow models, such as the hyperbolic [source] and exponential [source] models, the elasto-plastic bow model assumes that the friction between the bow and the string is caused by a large quantity of bristles, each of which contributes to the total amount of friction.

5 Section 2 name

Here is section 2. If you want to leearn more about LaTeX 2_ε, have a look at [**?**], [**?**] and [**?**].

I think this word is mis-pelled



5.1 Examples

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

Example 5.1 (An Example of an Example)
Here is an example with some math

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

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

5.2 How does Subsections and Subsubsections Look?

Well, like 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 subsub-paragraph?

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

6 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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References

[1] L. Madsen, "Introduktion til LaTeX," http://www.imf.au.dk/system/latex/bog/, 2010.

[2] F. Mittelbach, *The LATEX companion*, 2nd ed. Addison-Wesley, 2005.

[3] T. Oetiker, "The not so short a introduction to LaTeX2e," http://tobi.oetiker.ch/lshort/lshort.pdf, 2010.

Part III

Papers

Paper A

Paper A title

List of authors

The paper has been published in the
Journal or Proceedings Vol. XX(X), pp. XXX–XXX, 201X.

The layout has been revised.

Abstract

Here is an abstract.

1 Introduction

Here is an introduction [**?**].

2 Conclusion

Here is the conclusion.

A An appendix

Here is some text.

References

[1] F. Mittelbach, *The LATEX companion*, 2nd ed. Addison-Wesley, 2005.

References

Paper B

Paper B title

List of authors

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