

# L<sup>A</sup>T<sub>E</sub>X Template for the International Modal Analysis Conference (IMAC)

Austin Downey<sup>1</sup>, Babe the Blue Ox<sup>2</sup>, and Paul Bunyan<sup>3</sup>

<sup>1</sup>Department of Mechanical Engineering  
University of South Carolina, Columbia, SC 29208

<sup>2</sup>Department of Farm Animal Health

<sup>3</sup>Department of Forestry and Environmental Science  
North American Forestry University, New Town, WI 55401

## ABSTRACT

This is a L<sup>A</sup>T<sub>E</sub>X template for SEM-IMAC. For feedback and support, please see the GitHub repository home page that can be found at <https://github.com/ARTS-Laboratory/SEM-IMAC-template>. No promises are made in terms of timely help from the author.

**Keywords:** Keyword One, Keyword Two, Keyword Three, Keyword Four

## INTRODUCTION

Every good paper needs to cite some prior work IMAC [1, 2, 3, 4], but should also reference figures and equations in the text. For example, Figure 1 shows an image of a car suspension that is in the public domain. The displacement of the time can be modeled as a 1-DOF system as shown in equation 1.

$$m\ddot{x} + c\dot{x} + kx = F \quad (1)$$

SEM IMAC does not want indentation for each paragraph. So the L<sup>A</sup>T<sub>E</sub>X template takes care of that. Just make sure to have a space between new paragraphs but do not add spacing between equations you want to be included in a paragraph.

This is a new paragraph so there is a space between it and the prior text. Good papers may also have tables, the website [tablesgenerator.com](http://tablesgenerator.com) is a great way to build tables.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Table 1: Results for a fictional test

	test 1	test 2	test 3	test 4	test 5	test 6	test 7
metric 1	0.9	0.6	0.8	0.4	0.3	0.6	0.3
metric 2	1	12	5	32	8	32	2



Figure 1: A public domain picture of Car suspension that is designed for vibration control.

## BACKGROUND

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

## ANALYSIS

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

## CONCLUSION

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

## ACKNOWLEDGEMENTS

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

## REFERENCES

- [1] Austin Downey and Laura Micheli. “Open vibrations”, May 2021.
- [2] Ishrat Singh, Philip Conrad, Puja Chowdhury, Jason D. Bakos, and Austin Downey. “Real-time forecasting of vibrations with nonstationarities”. In *IMAC 39*, February 2021.
- [3] Austin Downey, Jonathan Hong, Jacob Dodson, Michael Carroll, and James Scheppegegrell. “Millisecond model updating for structures experiencing unmodeled high-rate dynamic events”. *Mechanical Systems and Signal Processing*, 138:106551, April 2020.
- [4] Austin Downey, Liang Cao, Simon Laflamme, Douglas Taylor, and James Ricles. “High capacity variable friction damper based on band brake technology”. *Engineering Structures*, 113:287–298, apr 2016.