

Full article name

Journal name, volume, pages, publication date

First Author, Second Author, Third Author

Student presentation of the Scientific working class

Otto-von-Guericke-Universität, Magdeburg

Created and presented by: Student Name

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Introduction

- Put the article into the broader frame of the addressed topic
- Add few references to the similar works
- Add a reference to the review paper from the field
- Motivate audience why it is important
- Include descriptive image

Do not forget to source your media properly



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Use itemize and enumerate to list points

Scientific working is a social discipline that includes:

- Doing own research and science
- Working in the teams
- Raising money
- Publishing papers
- Giving presentations
- Evaluating others people work

This class will strengthen your skills in:

- 1 Giving presentations on scientific topics
- 2 Working in the teams
- 3 Evaluating work of other people

Managing literature

- Use JabRef <http://www.jabref.org/> to manage literature list
- Put your bibliography into the literature.bib file
- Cite in the author year format. Example: It can be shown that cracks can be modelled by nonlinear equations, see (Vojtěch Kulvait, Josef Málek, and K. R. Rajagopal 2012).

Citation styles

- You can inline citation into the footnote. Example: As has been shown recently¹, Titanium alloys elastic response could not be modeled as linear .
- When citing a part from a large work, use appropriate in work referencing. Example: Vojtěch Kulvait performed number of numerical simulations in his Doctoral thesis, see (Vojtěch Kulvait 2017, p. 83-125).
- When using image from the paper you present, in citation put also the page of the article from which image was taken.

¹V Kulvait, J Málek, and KR Rajagopal (2017). "Modeling Gum Metal and other newly developed titanium alloys within a new class of constitutive relations for elastic bodies." In: *Archives of Mechanics* 69.3.

Equations

- Never copy paste equations from the original article.
- Manual how to typeset mathematics in LaTeX, see <https://en.wikibooks.org/wiki/LaTeX/Mathematics>.
- Use equation environment to highlight important equations and put inline equations between two dollar symbols.

Example complex equation from (Kulvait, Málek, and K. Rajagopal 2017, p. 229)

$$\begin{aligned}\sigma_1(tr \mathbf{T}) &= \frac{1}{3K} \left(\frac{\tau_K^2 + |tr \mathbf{T}|^2}{\tau_K^2} \right)^{\frac{s'-2}{2}}, \\ \sigma_2(|\mathbf{T}^d|) &= \frac{1}{2\mu} \left(\frac{\tau_\mu^2 + |\mathbf{T}^d|^2}{\tau_\mu^2} \right)^{\frac{q'-2}{2}}.\end{aligned}\tag{1}$$

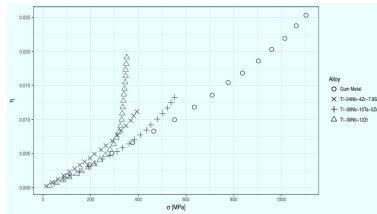
Tables

- Never copy paste tables from the original article.
- You can create tables using dedicated tools, see <https://www.tablesgenerator.com/>.
- Use table environment and include source of the data.

Figures

- Cite figure from the article including the page.
- Use figure floating environment.

Example



Stress strain relation of Gum Metal, see (Kulvait, Málek, and K. Rajagopal 2017, p. 226).

Summary

- Don't forget to put in the summary.
- Try to reduce LaTeX warnings number.
- Resolve any LaTeX errors.

Literature I



Kulvait, V, J Málek, and KR Rajagopal (2017). "Modeling Gum Metal and other newly developed titanium alloys within a new class of constitutive relations for elastic bodies.". In: *Archives of Mechanics* 69.3.



Kulvait, Vojtěch (2017). "Mathematical analysis and computer simulations of deformation of nonlinear elastic bodies in the small strain range.". PhD thesis. Charles University, Faculty of mathematics and physics.



Kulvait, Vojtěch, Josef Málek, and K. R. Rajagopal (2012). "Anti-plane stress state of a plate with a V-notch for a new class of elastic solids". In: *International Journal of Fracture* 179.1-2, pp. 59–73. DOI: 10.1007/s10704-012-9772-5.