

# Research notebook

The purpose of this page is to be a sort of research notebook. I have also created a project at OSF (Open Science Frameworks) site having similar purpose in mind (and to investigate the facilities provided by OSF). Project page [Computational Engineering Notebook](#)

## Questions

- [Questions](#)

## Quotes

- [Quotes](#)

## Nomenclature, glossaries, terminology, dictionaries

- [Finite Element Modeling and Analysis Glossary](#)
- [http://www.geol.lsu.edu/Faculty/Juan/downloads/literature/cmsc30\\_03.pdf](http://www.geol.lsu.edu/Faculty/Juan/downloads/literature/cmsc30_03.pdf)

## Software at Academia

- [Academic software](#)

## Science

- [http://cseweb.ucsd.edu/~ricko/CSE3/Lie\\_with\\_Statistics.pdf](http://cseweb.ucsd.edu/~ricko/CSE3/Lie_with_Statistics.pdf)

## Engineering vs Science

- Software Engineering, Not Computer Science  
<http://www.stevemccconnell.com/psd/04-senotcs.htm>
- Scientists and software engineers: a tale of two cultures  
<http://www.ppig.org/papers/20th-segal.pdf>

## Reproducible numerical science

- [http://www.ahay.org/wiki/Main\\_Page](http://www.ahay.org/wiki/Main_Page) Madagascar
- <http://pypet.readthedocs.org/en/latest/index.html> pypet
- [http://wiki.stodden.net/ICERM\\_Reproducibility\\_in\\_Computational\\_and\\_Experimental\\_Mathematics:\\_Readings\\_and\\_References](http://wiki.stodden.net/ICERM_Reproducibility_in_Computational_and_Experimental_Mathematics:_Readings_and_References)
- [http://www.reproduciblescience.org/index.php/Main\\_Page](http://www.reproduciblescience.org/index.php/Main_Page)
- <http://www.taverna.org.uk/> Taverna
- [http://www.vistrails.org/index.php/Main\\_Page](http://www.vistrails.org/index.php/Main_Page) Vistrails

- <http://www.activepapers.org/>

## Books and papers

- [Books](#)
- [Computational Algebra](#)

## Geometric Algebra & Geometric Calculus

- [Linear and Geometric Algebra](#)
- [C++ template classes for geometric algebra](#)

## Math

- [Mathematical tools](#)
- [Method of manufactured solution](#)
- [Frenet frame](#)
- [Convolution](#)
- [Ordinary differential equations](#)

## Mesh generation & geometric modeling

- [http://www.steptools.com/support/stdev\\_docs/stpfiles/ap203/](http://www.steptools.com/support/stdev_docs/stpfiles/ap203/)
- [http://www.cc.gatech.edu/projects/large\\_models/](http://www.cc.gatech.edu/projects/large_models/)
- <http://gts.sourceforge.net/samples.html>
- <http://www.aimatshape.net/ontologies/shapes/viewmodels.jsp>

## Adaptive Hierarchical Mesh Refinement

- There is [separate page](#) where I collect references to this topic.

## Circle packing

- [https://www.nodebox.net/code/index.php/shared\\_2008-08-07-12-55-33](https://www.nodebox.net/code/index.php/shared_2008-08-07-12-55-33)

## Materials Modeling

- There is [separate notebook](#) where I collect references to material modeling libraries, papers, etc.

## Programming

- [DSL for FEM](#)
- [C++ programming](#)
- [C programming](#)
- [Matlab programming](#)
- [Octave programming](#)
- [C/C++ libraries](#)
- [Qt programming](#)
- [JavaScript programming](#)

## Tex and LaTeX and DocOnce

### LaTeX

- [TeX and LaTeX](#)
- <https://khan.github.io/KaTeX/>

### DocOnce

- <https://github.com/hplgit/doconce>
- <http://hplgit.github.io/doconce/doc/pub/tutorial/tutorial.html>

## Tips and tricks

- [Setting HDF5 API version](#)
- [PDF tricks](#)
- [Environment setup](#)
- [Bash tricks](#)
- [Documenting with Sphinx](#)
- [General programming tips](#)

## Tools

- [Images manipulation](#)
- [HDF5](#)
- [CMake](#)
- [Scientific Data Management Systems](#)
- [Installers on Windows](#)
- [SVG](#)
- [BRLCAD](#)
- [Maxima](#)
- [Unicode](#)
- <https://fcmlab.cie.bgu.tum.de/redmine/projects/fcmlab/wiki/FCMLab>
- [IGA](#)

## Vim

- [Better whitespace highlighting plugin](#)

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