SUNFLUIDH : A RESEARCH SOFTWARE FOR THE COMPUTATIONAL FLUID DYNAMICS

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USER'S GUIDE

Introduction

- A brief description
- Sunfluidh install

Equations solved, input and outputs files

- Sets of equations
- Sunfluidh data sets (input file)
- Sunfluidh output files

How to use Sunfluidh : Key points, Tutorial and examples

- Overview of key points for using sunfluidh
- Tutorial : how to build the input data file ?
- Focus on wall boundary conditions : Some examples here
- Examples of different cases

Add-ons

- More details ? : Information on the numerical methods (staggered grid, discretization, ...)
- VISFIELD : a file format converter for visualization
- MESHGEN : a mesh generator for sunfluidh
- MATLAB : reading output files with Matlab
- Python : reading output files with Python
- More details ? : Information on the numerical methods (staggered grid, discretization, ...)

/* Documents on the educative version of Sunfluidh */

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https://sunfluidh.lisn.upsaclay.fr/ - **Documentation du code de simulation numérique SUNFLUIDH**

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https://sunfluidh.lisn.upsaclay.fr/doku.php?id=start

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