

A segregated Finite-Volume CFD Solver with Interface Jacobians

Project Characteristics

Mechanics: ★★☆☆☆
 Mathematics: ★★☆☆☆
 Programming: ★★★★★

- Co-simulation is a prominent method to solve multiphysics problems
- Your Task (Matlab/C++) application:
 - Create a 2D laminar incompressible transient CFD solver for unstructured grids should be implemented
 - Compute the Interface Jacobian of the CFD solver
 - Perform a Fluid-Structure Interaction Simulation
- Programming language: Matlab, C++

