

Homework 3

Write a MATLAB/Python code for solving the worked example we have done in class (example 6-2 of the book). Please use 4 u-velocity control volumes.

- 1 First of all please do not use under-relaxation. How many iterations do you need to reach convergence?
- 2 Now use under-relaxation. The book claims that the number of the iterations necessary to reach convergence is 19. Is it correct? Check.
- 3 (Optional). Obtain the solution also for 10, 20, 50 and 1000 grid points.