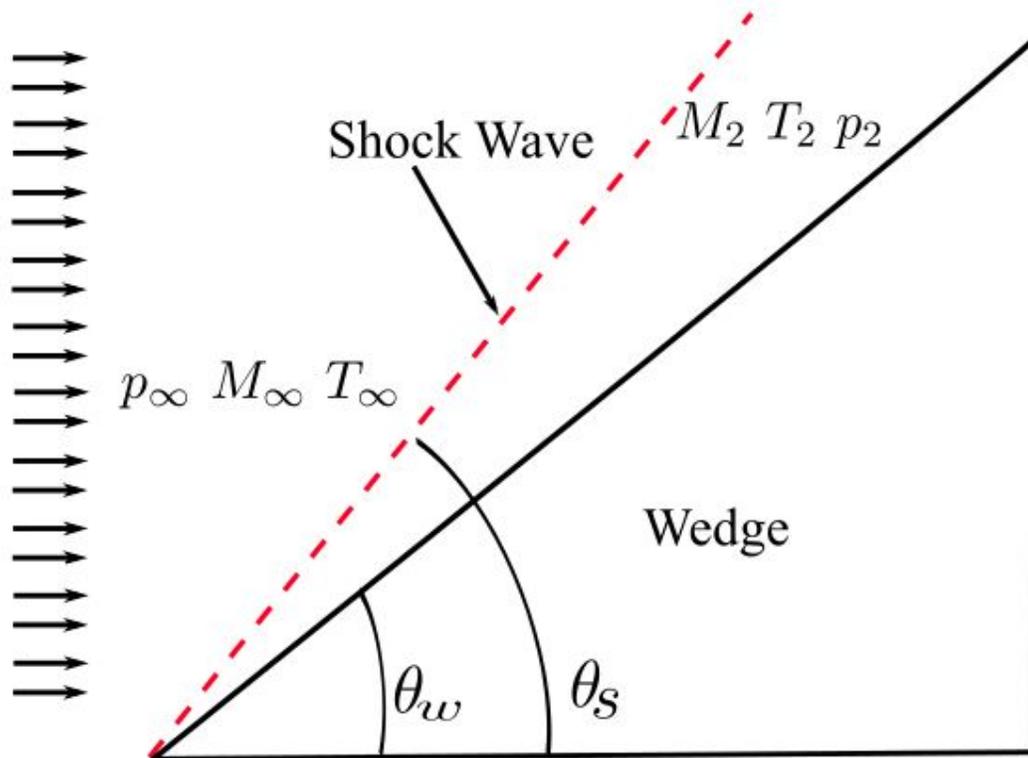


Simulation of Supersonic Flow over Wedge using pisoCentralFoam

OpenFOAM has become a powerful Opensource CFD tool for the research work in different fields of fluid dynamics. But it lacks detailed documentation for the solvers made and to use different tutorials which comes with the installation. For this purpose the current work tends to illustrate

to setup and run the case of "Supersonic flow over simple wedge" using pisoCentralFoam and compare the results with analytical solution.



Boundary Conditions:

Mach Numbers	1.65, 1.75, 2, 2.25, 2.5, 3.0, 3.5
Semi Wedge Angle	15 deg
Free stream pressure	100000 Pa
Free stream Temperature	270 K

Fluid	Air
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