Aerodynamics Computational Assignment #4: Compressible Flow

Assigned Date: October 26/29, 2021
Due Date: November 29/December 2, 2021

Collaboration Policy:

Collaboration is permitted on the computational labs. You may discuss the means and methods for formulating and solving problems and even compare answers, but you are not free to copy someone else's work. *Copying material from any resource (including solutions manuals) and submitting it as one's own is considered plagiarism and is an Honor Code violation.*

Matlab Code Policy:

Computational codes must be written individually and are expected to be written in MATLAB. If you have collaborated with others while writing your code be sure to acknowledge them in the header of your code, otherwise you may receive a zero for plagiarism. All code files required to successfully run the computational assignment driver script along with a pdf of your code and its execution (i.e. printed comments and figures) should be submitted via the course website by 11:59pm on the due date. Code files will not be accepted after the given due date.

Problem #1:

Apply given MATLAB functions to all examples in Chapters 8-10 THAT USE APPENDIX A, B, and C TABLES AND FIGURE 9.9 and confirm similar numbers to those obtained from tables/chart 9.9 by Anderson.

Problem #2:

Use given MATLAB functions to solve Anderson problem 9.14.

Problem #3:

Using given MATLAB functions to reproduce Anderson Figure 9.9.