



AA283 - Useful Web Sites

This is my web site where the AA 283 notes can be found in pdf format along with the course summary and homework assignments.

<http://www.stanford.edu/~cantwell/>

This Virginia Tech web site has a useful app for calculating the properties of a one-dimensional compressible flow. The app is not downloadable as far as I can tell.

<http://www.aoe.vt.edu/~devenpor/aoe3114/calc.html>

This web site has a downloadable app for calculating the properties of a one-dimensional compressible flow. It works on Mac system 9 but not OSX.

http://www.aoe.vt.edu/~mason/Mason_f/MRsoft.html

This MIT site has the Fluid Mechanics Films produced for the National Science Foundation in the 1960's available in streaming video. You need Real Player to view the films. Highly recommended.

<http://web.mit.edu/fluids/www/Shapiro/ncfmf.html>



Useful Web Sites – Software for Combustion Calculations

This is a NASA Glenn web site where you can download free software for the application CEA (CHEMICAL EQUILIBRIUM WITH APPLICATIONS). Click on the “request form” button and follow the instructions. The pc and linux object files should execute with no problem. The software for MacOSX requires that your Mac be equipped with the software developer tools “Xcode tools” that came with your system softwareCD and it requires the latest version of the free fortran compiler g77. The Glenn site provides instructions for getting the software running on the Mac and the website where g77 can be obtained. If you have an intel based Mac the g77 for intel compiler will not compile the CEA fortran source codes. If your Mac is PowerPC based then the g77 for PowerPC compiler will work. The data used by CEA is the data compiled in the report by McBride et al.

<http://www.grc.nasa.gov/WWW/CEAWeb/ceaHome.htm>

This is a web-based interface for running CEA. You need a browser with cookies enabled. The cookies go away when you close your browser. In addition you need two passwords both six letters, both lower case. The first is ‘rocket’, the second is ‘combus’. This is a relatively new site and any problems should be reported to michael.j.zehe@nasa.gov.

<http://cearun.grc.nasa.gov>