

Lab 1a**Wind Tunnel Testing Principles & Lift and Drag Coefficients on an Airfoil****OBJECTIVES**

- Calibrate the RPM/wind speed relation of the wind tunnel.
- Measure the drag and lift coefficients of an airfoil as a function of the angle of attack and Reynolds number.
- Measure the RMS fluctuations of pressure
- Perform a complete uncertainty analysis on the measured drag and lift coefficients.

EQUIPMENT

| <i>Name</i> | <i>Model</i> | <i>S/N</i> |
|----------------------|--------------|------------|
| Flowtek Wind Tunnel | | |
| Pressure Transducers | | |
| Airfoil NACA 2415 | | |
| NI DAQ Card | PCI-6024E | |
| Computer | | |

The wind tunnel flow measurement workstation consists of 8 pressure tubes connected to pressure transducers to measure pressure relative to atmospheric pressure, Flowtek wind tunnel with control panel to control air flow, and data acquisition system (DAQ NI PCI-6024E and LabView 2010 software). In this experiment, you will perform air pressure on the surface of an airfoil.

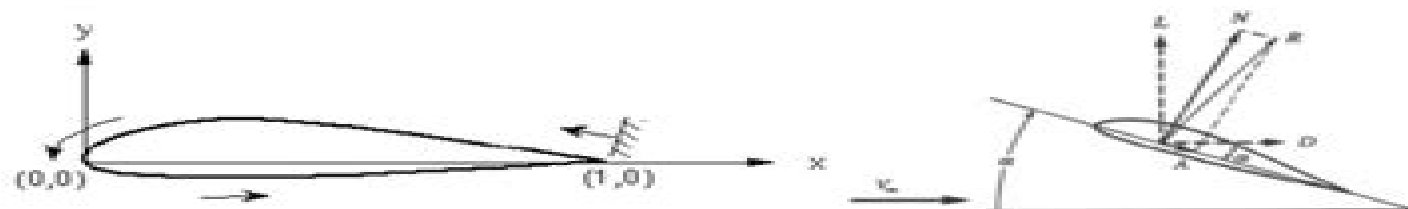
This lab was designed to be completed in 2 lab sessions. Data processing may take 1 or 2 more sessions. Data processing should be performed as data is taken, to guarantee good results.

REQUIRED READING

Read reference [1] for introduction and operation of the wind tunnel. For review in fluid mechanics see [2]. Experimental data is available for $Re = 200,000$ in [3] and for other Re in [4].

THEORY

Airfoil theory is well described in [2], chapter 8.7. The standard coordinate definitions are shown in Fig. 1.



Lab Report For Drag And Lift Force

W.L. Cowley



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