

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.

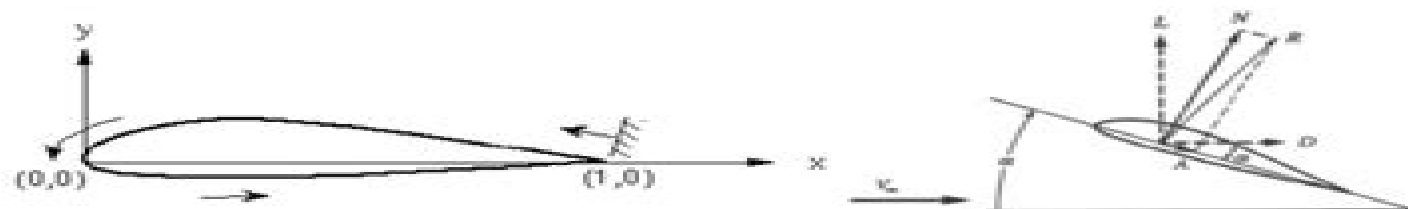
This lab was designed to be completed in 2 lab sessions. Data processing may take 1 or 2 more sessions. Data processing should be performed as data is taken, to guarantee good results.

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

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Table of Contents Lab Report For Drag And Lift Force

1. Understanding the eBook Lab Report For Drag And Lift Force
 - The Rise of Digital Reading Lab Report For Drag And Lift Force
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Report For Drag And Lift Force
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Report For Drag And Lift Force
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Report For Drag And Lift Force
 - Personalized Recommendations
 - Lab Report For Drag And Lift Force User Reviews and Ratings
 - Lab Report For Drag And Lift Force and Bestseller Lists
5. Accessing Lab Report For Drag And Lift Force Free and Paid eBooks
 - Lab Report For Drag And Lift Force Public Domain eBooks
 - Lab Report For Drag And Lift Force eBook Subscription Services
 - Lab Report For Drag And Lift Force Budget-Friendly Options

6. Navigating Lab Report For Drag And Lift Force eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Report For Drag And Lift Force Compatibility with Devices
 - Lab Report For Drag And Lift Force Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Report For Drag And Lift Force
 - Highlighting and Note-Taking Lab Report For Drag And Lift Force
 - Interactive Elements Lab Report For Drag And Lift Force
8. Staying Engaged with Lab Report For Drag And Lift Force
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Report For Drag And Lift Force
9. Balancing eBooks and Physical Books Lab Report For Drag And Lift Force
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Report For Drag And Lift Force
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Report For Drag And Lift Force
 - Setting Reading Goals Lab Report For Drag And Lift Force
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Report For Drag And Lift Force
 - Fact-Checking eBook Content of Lab Report For Drag And Lift Force
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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