

YOUR TITLE
AND
THE SWAMP OF DISPAIR

By

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ACKNOWLEDGMENTS

So long and thanks for all the fish.

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Chapter 1

Introduction

Fluid flow is complex and complicated, but a dissertation is worse. Thank goodness you are using L^AT_EX.

The following grid property table shows the number of nodes and elements. For this 2D grid, we expect the number of elements to scale with $(\Delta x)^2$.

Δx	Nodes	Elements
0.5	863	1688
0.2	1375	2692
0.1	3311	6534
0.05	11082	22012
0.03	25873	51510

Table 1.1: 2D Grid Size with Node and Element Counts

For inviscid cross flow past a cylinder of radius 1, the streamfunction is,

$$\Psi = V_{\infty} y \left(1 - \frac{1}{r^2} \right)$$

For a vertical cutline at $x = -1$, the u and v velocities are,

$$u = \frac{d\Psi}{dy} = \frac{y^4 + 3y^2}{(y^2 + 1)^2}$$

$$v = -\frac{d\Psi}{dx} = \frac{-2y}{(y^2 + 1)^2}$$

Also, we need the pressure coefficient, which is defined as,

$$C_p = \frac{1 - V^2}{q}$$

Chapter 2

How it Begins

This is how it begins.

Good luck. You will need it.

Chapter 3

Methodology

This starts the methodology section.

3.1 Governing Equations

The governing equations are the 2D compressible Navier-Stokes equations.

$$\frac{dU}{dt} + \frac{dF_x}{dx} + \frac{dF_y}{dy} - \frac{dF_{vx}}{dx} - \frac{dF_{vy}}{dx} = 0$$

3.2 Anger Management

My advisor suggested that a board makes a wonderful anger management device. Take his suggestion, I beg you!

Chapter 4

This is how it ends

A job well done—as in burnt to a crisp.

Bibliography

Appendix A

Spam

Spam spam spam spam wonderful spam. Where is Erik the Red when we really need a distraction from writing this dissertation?

Appendix B

Manuals

B.1 Quick Start

This quick start section shows how to get your dissertation started within 5 minutes.

B.2 Reality

You won't start writing for 6 months.

Appendix C

Eggs

Eggs with spam, spam, spam and spam.

VITA

My Name

Candidate for the Degree of

Doctor of Philosophy

Dissertation: Title

Major Field: Mechanical Engineering

Biographical:

B.S. Aerospace Engineering, May 2001 Oklahoma State University, Stillwater, OK. Summa Cum Laude.

M.S. Mechanical Engineering, August 2003 Oklahoma State University, Stillwater, OK. Thesis Topic: Improved Predictions.

Completed the requirements for the degree of Doctor of Philosophy with a major in Mechanical Engineering Oklahoma State University in August, 2008.

Experience:

Any work experience attained; not likely, you are trapped in graduate school until you finish this disseration. Now get to work!

Name: My Name

Date of Degree: December, 2009

Institution: Oklahoma State University

Location: Stillwater, Oklahoma

Title of Study: Title

Pages in Study: 9

Candidate for the Degree of Doctor of Philosophy

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This is where the abstract goes. Must be less than 350 words. Let me repeat. You spent 10 years and countless hours in the lab and it all fits in less than 350 words. No Really, Get to work so you can get out of here and get a real job being productive!

ADVISOR'S APPROVAL: _____