Final Project Report

Your Name

April 23, 2017

Abstract

Contents

1 Introduction

Write a brief description (background/significance) of what the project is about.

2 Problem Statement and Assumptions

State fully and precisely the mathematical problem. State any assumptions made for the formulation of the model. Explain meaning of all symbols used. Make clear what is given and what we are looking for.

2.1 Part I

Text introducing this subsection.

2.2 Part II

Text introducing this subsection.

3 Method/Analysis

Begin with naming or characterizing the method/approach to be used, perhaps explain the basic idea behind it, to what type of problems it applies, under what conditions, what it achieves, what are its main features, advantages, disadvantages. Justify why it is applicable to this problem, stating clearly any assumptions you need to make about the problem for the method to apply. Name some other methods/approaches one could use, and if/why your method may be preferable.

4 Solutions/Results

This section contains the presentation of your solution and results. Describe your implementation of the method(s) for this specific problem, any special features, numerical methods implementation strategy, choices of any parameters, stopping criteria, etc. Present the results in words and plots (annotate by hand if necessary), explain what they mean. Include your code in an Appendix.

4.1 A subsection

Text introducing this subsection.

4.1.1 A subsubsection

Text introducing this subsubsection.

4.1.2 A further subdivision

Text introducing this subsubsection.

5 Discussion/Conclusions

Interpret your solution physically, what we learn from it, comment on strengths and weaknesses of the solution method, any nice features you want to brag about, possible ways to improve it (e.g. how to make it more accurate, more efficient), as appropriate.

References

[1] Heath, Michael T., Scientific Computing: An Introductory Survey, McGraw Hill, 2002.