

A Numerical Solution to a Second Order Ordinary Differential Equation

Hunter, Marcus Tiger, Matthew Wigfield, Jacob

November 20, 2015

Abstract

Abstract here

Contents

1. Introduction	5
1.1. Problem Description	5
2. Analytical Solution	5
3. Numerical Scheme	5
3.1. Description	5
3.2. Implementation	5
3.2.1. Discretized Solution	5
3.2.2. Plotting	5
4. Numerical Scheme Properties	5
4.1. Convergence	5
4.2. Consistency	5
4.3. Stability	5
5. Worked Example	5
A. Numerical Scheme Program	6

1. Introduction
- 1.1. Problem Description
2. Analytical Solution
3. Numerical Scheme
- 3.1. Description
- 3.2. Implementation
- 3.2.1. Discretized Solution
- 3.2.2. Plotting
4. Numerical Scheme Properties
- 4.1. Convergence
- 4.2. Consistency
- 4.3. Stability
5. Worked Example

A. Numerical Scheme Program