

# A numerical computation of special functions with applications to physics

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## Abstract

Students of mathematical physics, engineering, natural and biological sciences sometimes need to use special functions that are not found in ordinary mathematical software. In this paper a simple universal numerical algorithm is developed to compute the Legendre function values of the first kind using the Legendre differential equation. The computed function values are compared to built-in values in *Mathcad14* and *Derive6*. Error analysis is performed to test the accuracy of the algorithm. Graphical residuals are found to be of order  $10^{-12}$ . Finally, some physical application is presented.

## 1 Introduction and motivation

Abramowitz and Stegun's Handbook of Mathematical Functions [1] is one of the most cited references in mathematics. According to Ludovic and Bruno [2] the formulas in this book on special functions were computed, written and proof-read by hand.

The method of separation of variables for the solution of partial differential equations often leads to ordinary differential equations (ODEs) with variable coefficients. The solutions are obtained in the form of infinite series or in terms of special functions. The Legendre and Bessel equations are some of the ordinary differential equations derived from the wave equation. These equations and their solutions play an important role in applied mathematics, electric field, heat conduction, fluid flow *et cetera* (see for example, Lebedev [9], Tikhonov and Samarskii [3]).

The main objective of this paper is to develop a simple numerical method using the Legendre differential equation:

$$(1-x^2) \frac{d^2 y}{dx^2} - 2x \frac{dy}{dx} + n(n+1)y = 0 \quad (0.1)$$

which could be re-written as:

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## **Table of Contents Computation Of Special Functions**

1. Understanding the eBook Computation Of Special Functions
  - The Rise of Digital Reading Computation Of Special Functions
  - Advantages of eBooks Over Traditional Books
2. Identifying Computation Of Special Functions
  - 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 Computation Of Special Functions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Computation Of Special Functions

- Personalized Recommendations
- Computation Of Special Functions User Reviews and Ratings
- Computation Of Special Functions and Bestseller Lists
- 5. Accessing Computation Of Special Functions Free and Paid eBooks
  - Computation Of Special Functions Public Domain eBooks
  - Computation Of Special Functions eBook Subscription Services
  - Computation Of Special Functions Budget-Friendly Options
- 6. Navigating Computation Of Special Functions eBook Formats
  - ePub, PDF, MOBI, and More
  - Computation Of Special Functions Compatibility with Devices
  - Computation Of Special Functions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Computation Of Special Functions
  - Highlighting and Note-Taking Computation Of Special Functions
  - Interactive Elements Computation Of Special Functions
- 8. Staying Engaged with Computation Of Special Functions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Computation Of Special Functions
- 9. Balancing eBooks and Physical Books Computation Of Special Functions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Computation Of Special Functions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Computation Of Special Functions
  - Setting Reading Goals Computation Of Special Functions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Computation Of Special Functions

- Fact-Checking eBook Content of Computation Of Special Functions
  - 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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