

# 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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# Computation Of Special Functions

**Michael Brown**



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