

BESSEL'S EQUATION AND BESSEL FUNCTION

Introduction

The Bessel differential equation is the linear second-order ordinary differential equation, it is considered one of the most important ordinary differential equations due to its wide applications such as heat transfer, vibrations, stress analysis and fluid mechanics. The solutions to this equation give the Bessel functions (of first and second kinds) and they are first defined by the mathematician Daniel Bernoulli and then generalized by Friedrich Bessel.

Bessel functions are associated with a wide range of problems in important areas of mathematical physics, especially in problems of wave propagation and signal processing.

There are different methods to solve Bessel differential equation: **Laplace transform** and **power series method** (very common method in solving differential equations).

Bessel's Differential Equation

Bessel differential equation of order n is second order ordinary differential equation of the form:

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

Bessel functions $J_n(x)$ of the first kind of order n are the solutions of Bessel's differential equation (1).

By using the series expansion of the Bessel functions of the first kind, $J_n(x)$ around $x = 0$, we can define $J_n(x)$ in terms of the gamma function as:

$$J_n(x) = \sum_{r=0}^{\infty} \frac{(-1)^r}{r! \Gamma(n+r+1)} \left(\frac{x}{2}\right)^{n+2r} \quad (2)$$

Since $\Gamma(n+r+1) = (n+r)!$, then the above equation becomes

$$J_n(x) = \sum_{r=0}^{\infty} (-1)^r \frac{1}{r! (n+r)!} \left(\frac{x}{2}\right)^{n+2r}$$

The formula

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Quan Yuan



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Numerical Analysis of the Solution of Bessel Differential Equation Savo M.. Jovanović,1972 *Applied Differential Equations* Amritasu Sinha,2010 Applied Differential Equations discusses the Legendre and Bessel Differential equations and its solutions Various properties of Legendre Polynomials as well as Legendre function and Bessel functions in part one The second order Partial Differential equation of three types is studied and the technique to solve with the Separation of Variables technique called Fourier s Method have been discussed in the second part In the Appendix some applications of the Heat Equation are discussed to Model the Environment Comprehensive Differential Equations: Paper II P.N.

Gupta,2005-12 **Solutions to Calculus and Ordinary Differential Equations** N. Gupta; R.S. Dahiya,2006-08

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Finding Solutions to Well Known Differential Equations in Terms of Bessel Functions Phillip Douglas,1978

Ordinary Differential Equations Fred Brauer,John A. Nohel,1967 Finding All Bessel Type Solutions for Linear Differential Equations with Rational Function Coefficients Quan Yuan,2012 ABSTRACT A linear differential equation with rational function coefficients has a Bessel type solution when it is solvable in terms of Bessel functions change of variables

algebraic operations and exponential integrals For second order equations with rational function coefficients the function f of change of variables must be a rational function or the square root of a rational function An algorithm was given by Debeerst van Hoeij and Koepf that can compute Bessel type solutions if and only if change of variables is a rational function In this thesis we extend this work to the square root case resulting in a complete algorithm to find all Bessel type solutions This algorithm can be easily extended to a Whittaker Kummer solver Combine the two algorithms we can get a complete algorithm for all 0F1 and 1F1 type solutions We also use our algorithm to analyze the relation between Bessel functions and Heun functions

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