

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:

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

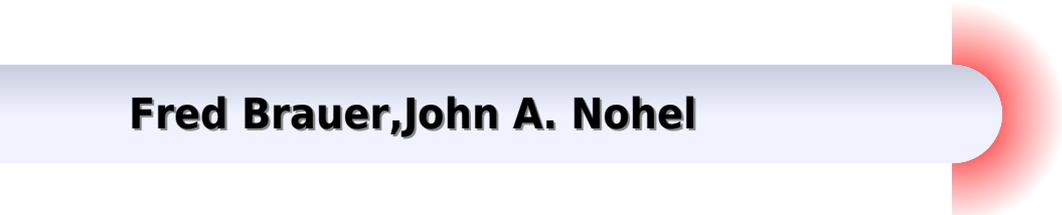
Since $\Gamma(n+r+1) = (n+r)!$, then the above equation becomes

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

The formula

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Ordinary Differential Equations Bhamra, 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 Analysis And Differential Equations Odile Pons,2015-01-19 This book presents advanced methods of integral calculus and the classical theory of the ordinary and partial differential equations It provides explicit solutions of linear and nonlinear differential equations and implicit solutions with discrete approximations Differential equations that could not be explicitly solved are discussed with special functions such as Bessel functions New functions are defined from differential equations Laguerre Hermite and Legendre orthonormal polynomials as well as several extensions are also considered It is illustrated by examples and graphs of functions with each chapter containing exercises solved in the last chapter *Ordinary Differential Equations* Fred Brauer,John A. Nohel,1967 The Problem of Finding Solutions to Well Known Differential Equations in Terms of Bessel Functions Phillip Douglas,1978 *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 **Handbook of Exact Solutions for Ordinary Differential Equations** Valentin F. Zaitsev,Andrei D. Polyanin,2002-10-28 Exact solutions of differential equations continue to play an important role in the understanding of many phenomena and processes throughout the natural sciences in that they can verify the correctness of or estimate errors in solutions reached by numerical asymptotic and approximate analytical methods The new edition of this bestselling handboo **Analysis And Differential Equations (Second Edition)** Odile Pons,2022-12-19 The book presents advanced methods of integral calculus and optimization the classical theory of ordinary and partial differential equations and systems of dynamical equations It provides explicit solutions of linear and nonlinear differential equations and implicit solutions with discrete approximations The main changes

of this second edition are the addition of theoretical sections proving the existence and the unicity of the solutions for linear differential equations on real and complex spaces and for nonlinear differential equations defined by locally Lipschitz functions of the derivatives as well as the approximations of nonlinear parabolic elliptic and hyperbolic equations with locally differentiable operators which allow to prove the existence of their solutions furthermore the behavior of the solutions of differential equations under small perturbations of the initial condition or of the differential operators is studied

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solution of second order linear differential equations It also covers Bessel's and Legendre's equations and functions and the Laplace transform Finally the book revisits partial differential equations to solve the Laplace equation wave equation and diffusion equation and discusses the methods to solve partial differential equations using the Fourier transform A large number of solved examples as well as exercises at the end of chapters help the students comprehend and strengthen the underlying concepts The book is intended for undergraduate and postgraduate students of Mathematics B A B Sc M A M Sc and undergraduate students of all branches of engineering B E B Tech as part of their course in Engineering Mathematics

Introduction to Ordinary Differential Equations Zane C. Motteler, 1972

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