

Confluent Hypergeometric Functions Slater L J Cambridge

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~~Confluent Hypergeometric Function Exercises LOF Addis Gallery 2 Confluent Hypergeometric Functions Some Hypergeometric Function Exercises Part12 Solution of Confluent Hypergeometric Equation || Kummer's Equation || About Confluent series~~

~~Confluent Hypergeometric Functions[Wikipedia] Confluent hypergeometric function Hypergeometric function: solution of confluent hypergeometric equation. Lecture 9 Generalized Hypergeometric Functions Differentiation of Confluent Hypergeometric Function Confluent Hypergeometric functions/special Functions Important Questions on hypergeometric and confluent Hypergeometric functions//Special Functions Integral representation of confluent Hypergeometric function Gauss hypergeometric function Hypergeometric functions Lect Some Prerequisite Analysis on the Pochhammer Symbol Special functions - Hypergeometric series Scott Edwards (Harvard) Part 1: Gene trees and phylogeography~~

~~Hypergeometric function 1aMPG Primer: scRNA-seq analyses: challenges, opportunities, and best practices. Part 1 (2020) Bio-Informatics—tutorial How to perform multiple sequence alignment and phylogenetic analysis Hypergeometric function: Legendre polynomial in terms of hypergeometric function. Lecture 11 HYPERGEOMETRIC FUNCTION $F(a,b,c;x)$ \u0026 ITS EVALUATION-(Series Solution of HyperGeometric Equation) Hypergeometric function: integral representation for confluent hypergeometric function. Lecture 13 Lecture-20 (Hypergeometric Differential Equation) Special Functions || Differentiation of Hypergeometric Function Special Functions || Hypergeometric Function || Solution of Hypergeometric Differential Equation Integral Representation of Confluent Hypergeometric Function Part10 Some important questions based on hypergeometric function || Kummer's theorem Part2 Integral representation for the hypergeometric function |Hypergeometric functions| run by part-1 Hypergeometric function |pochhammer symbol hypergeometric series |Kummar series| for BSc MSc Confluent Hypergeometric Functions Slater L Confluent hypergeometric functions by Slater, Lucy Joan. Publication date 1960 Topics Functions, Hypergeometric Publisher Cambridge [Eng.] University Press ... 60004198 /L/r84 Ocr ABBYY FineReader 11.0 (Extended OCR) Old_pallet IA12984 Openlibrary_edition OL5793009M Openlibrary_work OL6778231W Pages 268 Ppi 300~~

Confluent hypergeometric functions : Slater, Lucy Joan ...

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Confluent Hypergeometric Functions: L. J. Slater ...

Confluent Hypergeometric Functions. A. B. Olde Daalhuis School of Mathematics, Edinburgh University, Edinburgh, United Kingdom. This chapter is based in part on Abramowitz and Stegun (1964, Chapter 13) by L.J. Slater. The author is indebted to J. Wimp for several references.

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L. J. Slater, Confluent Hypergeometric Functions (Cambridge University Press, 1960), 247 pp., 65s. BOOK REVIEWS 169. SLATER, L.], Confluent Hypergeometric Functions (Cambridge University Press, 1960), 247 pp., 65s. Many problems in mathematical physics can be solved in terms of confluent hypergeometric functions, and for that reason it is useful to have collected together the basic formulae relating to these functions and an extensive set of numerical tables of Kummer's function ${}_1F_1(a; b; x)$

L. J. Slater, Confluent Hypergeometric Functions ...

June 1961, p. 169 L. J. Slater, Confluent Hypergeometric Functions (Cambridge University Press, 1960), 247 pp., 65s.

L. J. Slater, Confluent Hypergeometric Functions ...

Confluent hypergeometric functions / Lucy John Slater. Author: Slater, Lucy Joan, 1922-2008 Publisher: Cambridge : Cambridge university press, 1960. Description: XII, 247 p. : illus. ; 29 cm. Bibliography:

Includes bibliography. Dewey: 517.88 Subject: Hypergeometric functions. (source)lcsh

Confluent hypergeometric functions - Ghent University Library

In mathematics, a confluent hypergeometric function is a solution of a confluent hypergeometric equation, which is a degenerate form of a hypergeometric differential equation where two of the three regular singularities merge into an irregular singularity. The term confluent refers to the merging of singular points of families of differential equations; confluere is Latin for "to flow together".

Confluent hypergeometric function - Wikipedia

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In mathematics, the Gaussian or ordinary hypergeometric function ${}_2F_1(a, b; c; z)$ is a special function represented by the hypergeometric series, that includes many other special functions as specific or limiting cases. It is a solution of a second-order linear ordinary differential equation (ODE). Every second-order linear ODE with three regular singular points can be transformed into this ...

Hypergeometric function - Wikipedia

$1 + [1 + 4(x^2 + v^2)]^{1/2} - 2x < p(x) < 0$. From the recurrence relation for $K_v(x)$ $K_{v+1}(x) = \frac{2v+1-x}{2v+1} K_v(x) - \frac{x}{2v+1} K_{v-1}(x)$ we obtain $K_{v+1}(x)/K_v(x) = \frac{2v+1-x}{2v+1} - \frac{x}{2v+1} \frac{K_{v-1}(x)}{K_v(x)}$. Using the x above inequality for p , we conclude that the lemma is proved. 0 Theorem 1 For $x > 0$, $a > 0$, $b \in \mathbb{R}$, $j = 1, 2, 3, \dots$ we have $t_j > j(a, b, x) > t_{j-1}(a, b, x) > 2^{j-1} + [1 + 4(j-b)^2 + 16xa]^{1/2}$

On the expansion of confluent hypergeometric functions in

The confluent hypergeometric function is a degenerate form of the Hypergeometric Function which arises as a solution of the Confluent Hypergeometric Differential Equation. It is commonly denoted ${}_1F_1$, or M , and is also known as Kummer's Function of the first kind. An alternate form of the solution to the Confluent Hypergeometric Differential Equation is known as the Whittaker Function.

Confluent Hypergeometric Function of the First Kind

The generalized Gauss function is also used in mathematical statistics and the basic analogues of the Gauss functions have applications in the field of number theory. Dr Slater's treatment leads on from a discussion of the Gauss functions to the basic hypergeometric functions, the hypergeometric integrals, bilateral series and Appel series.

Amazon.com: Generalized Hypergeometric Functions ...

Then, the hypergeometric matrix function ${}_2F_1(N_1, N_2; N_3; z)$ is given by. Definition 4. If E is the positive stable matrix in $\mathbb{C}^{n \times n}$, then the Laguerre-type matrix polynomial is defined by where ${}_1F_1$ is the confluent hypergeometric matrix function (cf. [1]). Definition 5. (see [28, 32, 33]).

A Note on the Appell Hypergeometric Matrix Function F_2

Abstract In Slater's 1960 standard work on confluent hypergeometric functions, also called Kummer functions, a number of asymptotic expansions of these functions can be found. We summarize expansions derived from a differential equation for large values of the a -parameter.

Remarks on Slater's Asymptotic Expansions of Kummer ...

The confluent hypergeometric function (Kummer U function) is one of the solutions of the differential equation $x(1-x)y'' + (c-xy)y' - ay = 0$. The other solution is the hypergeometric function ${}_1F_1(a, b; z)$. The Whittaker W function can be expressed in terms of the Kummer U function:

Confluent hypergeometric Kummer U function - MATLAB ...

is the Kummer confluent hypergeometric function. Details. Mathematical function, suitable for both symbolic and numerical manipulation. The function has the series expansion $U(a, b; z) = \frac{\Gamma(b)}{\Gamma(a)} {}_1F_1(a, b; z) + \frac{\Gamma(b-a)}{\Gamma(b)} z^{b-a} {}_1F_1(b-a, b; z)$. For certain special arguments, Hypergeometric1F1 automatically evaluates to exact values.

Hypergeometric1F1 - Wolfram Language Documentation

Tables of the confluent hypergeometric function $F(n/2, 1/2; x)$ and related functions. Volume v.3(1949) (1949)[Leather Bound] by United States. National Bureau of Standards. Computation Laboratory. and a great selection of related books, art and collectibles available now at AbeBooks.com.