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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\(a; b; x\)\$](#)

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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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Confluent Hypergeometric Functions Slater L J Cambridge

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 , then the Laguerre-type matrix polynomial is defined by where ${}_1F_1$ is the confluent hypergeometric matrix function (cf. [28, 32, 33]). 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 $x^2 y'' + x(1-x)y' - ay = 0$. 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. 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.