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[Wikipedia] **Confluent hypergeometric**

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HYPERGEOMETRIC FUNCTION

$F(a,b,c;x)$ & ITS

EVALUATION-(Series Solution of
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*Hypergeometric function: integral
representation for confluent*

hypergeometric function. Lecture 13

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Lecture-20 (Hypergeometric Differential

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Confluent hypergeometric functions by
Slater, Lucy Joan. Publication date 1960

Topics Functions, Hypergeometric

Publisher Cambridge [Eng.] University

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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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Thanh

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Many problems in mathematical physics

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

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Functions 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)lcsb

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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

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Functions 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".

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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

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Functions Slater 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

Page 26/38

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$$1 + [1 + 4(x^2 + v^2)]^{1/2} - 2x < p(x) < 0.$$

From the recurrence relation for $K_v(x)$

$$K_{v+1}(x) = -K_v(x) - K_{-v}(x) \text{ we obtain } K_{v+1}$$

$$(x)/K_v(x) = -1 - p(x). \text{ Using the } x \text{ above}$$

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 $t_j(a,$

$$b, x) > t_{j-1}(a, b, x) \frac{2(j-b)+1 + [1+4(j-b)^2}$$

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On the expansion of confluent
hypergeometric functions in
The confluent hypergeometric function is
a degenerate form the Hypergeometric
Function which arises as a solution the
Confluent Hypergeometric Differential

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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

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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

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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

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matrix in , then the Laguerre-type matrix polynomial is defined by where ${}_1F_1$ is the confluent hypergeometric matrix function (cf.). Definition 5. (see[28, 32, 33]).

A Note on the Appell Hypergeometric Matrix Function F_2

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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.

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

The confluent hypergeometric function
(Kummer U function) is one of the
solutions of the differential equation The
other solution is the hypergeometric
function ${}_1F_1(a,b,z)$. The Whittaker W

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Functions 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

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manipulations. 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

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Functions $F(n/2, 1/2; x)$ and related functions. Volume v.3(1949) (

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