Contiguous function relations for triple and other hypergeometric functions

R.G. Buschman] - confluent hypergeometric function : definition of confluent hypergeometric function and synonyms of confluent hypergeometric function (English)

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-Contiguous function relations for triple and other hypergeometric functions
Notes: Includes bibliographical references (p. 276).
This edition was published in 1999

Tags: #confluent #hypergeometric #function #: #definition #of #confluent #hypergeometric #function #and #synonyms #of #confluent #hypergeometric #function #(English)

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DLMF: 15.5 Derivatives and
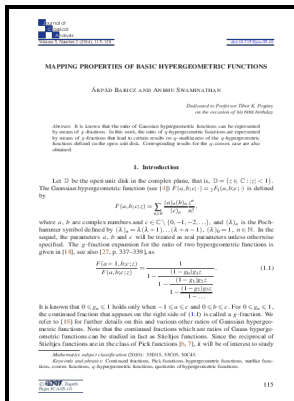
Contiguous Functions

Find a general solution of each equation. Use the definition in Exercise 18 to determine if infinity is an ordinary point or a singular point of the given differential equation. The function can be written as a linear combination of any two of its contiguous functions, with rational coefficients in terms of , and.

Contiguous relations of hypergeometric series

It is sufficient to find one solution in each equivalence class formed by gauge transformations. Choi J, Hasanov A, Turaev M:Linearly independent solutions for the hypergeometric Exton functions $X1$ and $X2$.

Hypergeometric Equation

The case a of the Lemma 6. Very recently Choi et al.

Hypergeometric Equation

As K is still an arbitrary separation constant, we can choose values for it to satisfy this requirement. One may use this transformation to get a more suitable set of the scalars a, P, 7. Preprint, Stony Brook, ITP-SB- 94-11, 42pp.

Full text of hypergeometric function and quadratic R

More seriously, we run into convergence problems even for a simple calculation of the moments of the probability distribution. Having found fully specified expressions for the probability density for both accelerating and decelerating flows, it might be expected that it is a routine matter to use these in an equation like equation 7.

DLMF: 16.3 Derivatives and Contiguous Functions

Unfortunately however standard mathematical tables do not list a formula for a sum over products of Hermite polynomials as it appears in equation 7. For example, the special case the function reduces to a : This identity is sometimes also referred to as second transformation.

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