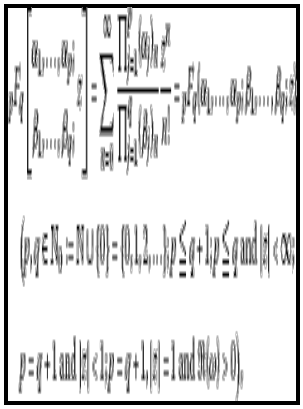
Contiguous function relations for triple and other hypergeometric functions

R.G. Buschman] - On some new contiguous relations for the Gauss hypergeometric function with applications



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Hypergeometric functions.Contiguous function relations for triple and other hypergeometric functions
-Contiguous function relations for triple and other hypergeometric functions
Notes: Includes bibliographical references (p. 276).
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Tags: #confluent #hypergeometric #function #: #definition #of #confluent #hypergeometric #function #and #synonyms #of #confluent #hypergeometric #function #(English)

Hypergeometric series

The reader is referred to the discussion in section 1.

DeepDyve

It is obtained from the Gauss second order ODE: In each case, the result may be proved by expanding the hypergeometric function as a series, compared with a known series for the given function. The Kummer functions, Whittaker functions, and Coulomb wave functions are essentially the same, and differ from each other only by elementary functions and change of variables. This section gives a few typical examples.

Full text of hypergeometric function and quadratic R

These functions are collectively called special functions.

Hypergeometric Equation

We regret to inform you that the publisher of this article, Not Applicable, has removed this article from DeepDyve.

DLMF: 16.3 Derivatives and Contiguous Functions

One problem with equation 7. If the variable c, which occurs in the denominator of the series representation for the hypergeometric function, is

zero or a negative integer, then the Gauss hypergeometric series is only defined if the zero is due to any one or both of the numerator variables occuring before the zero of the denominator variable.

Hypergeometric series

Many of these are nothing but special forms of hypergeometric series. A Lie group corresponding to o 4 is the group of rotations of 4-dimensional Euclidean space. If the two roots differ by an integer, the larger of the two will yield a solution, while the smaller may or may not give a solution, depending on the behavior of the coefficients.

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