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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).

Hypergeometric Summation An Algorithmic Approach

Wolfram Koepf: Hypergeometric Summation. An Algorithmic Approach to Summation and Special Function Identities, Springer Universitext Series, 2014. XII, 253 pp., ISBN 978-1-4471-6463-0. Modern algorithmic techniques for summation, most of which were introduced in the 1990s, are developed here and carefully implemented in the computer algebra system Maple™.

Algorithms for q-Hypergeometric Summation in Computer Algebra

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q-Hypergeometric Summation 779. or equivalently $H(k)C(k+1)C(k) = 1; C(k) = G(k)F(k)2F. qk 1. ;::;q. k m. : (2.2)$ Thus to determine an antiderivative $G(k)$ for $F(k)$ it is sufficient to search for a rational solution $C(k)$ of an inhomogeneous recurrence equation of first order with rational coefficients.

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The combination of these results gives orthogonal polynomials and (hypergeometric and q-hypergeometric) special functions a solid algorithmic foundation. Hence, many examples from this very active field are given. The materials covered are suitable for an introductory course on algorithmic summation and will appeal to students and researchers alike.

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