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***in the computer algebra system Maple™ . The algorithms of Fasenmyer, Gosper, Zeilberger, Petkovšek and van Hoeij for hypergeometric summation and recurrence equations, efficient multivariate summation as well as  $q$  -analogues of the above algorithms are covered.***

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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).**

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**The combination of these results gives orthogonal polynomials and (hypergeometric and q-hypergeometric) special functions a solid**

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***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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### ***Hypergeometric Summation***

***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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