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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 antidi erence  $G(k)$  for  $F(k)$  it is sucient to search for a rational solution  $C(k)$  of an inhomogeneous recurrence equation of rst order with rational coeicients.

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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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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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