

Generalized Hypergeometric Function

The generalized hypergeometric function is given by a [hypergeometric series](#), i.e., a series for which the ratio of successive terms can be written

$$\frac{c_{k+1}}{c_k} = \frac{P(k)}{Q(k)} = \frac{(k+a_1)(k+a_2)\cdots(k+a_p)}{(k+b_1)(k+b_2)\cdots(k+b_q)(k+1)} \quad (1)$$

(The factor of $k+1$ in the [denominator](#) is present for historical reasons of notation.)

The resulting generalized hypergeometric function is written

$$\sum_{k=0}^{\infty} c_k x^k = {}_pF_q \left[\begin{matrix} a_1, a_2, \dots, a_p \\ b_1, b_2, \dots, b_q \end{matrix} ; x \right] \quad (2)$$

$$= \sum_{k=0}^{\infty} \frac{(a_1)_k (a_2)_k \cdots (a_p)_k}{(b_1)_k (b_2)_k \cdots (b_q)_k} \frac{x^k}{k!}, \quad (3)$$

where $(a)_k$ is the [Pochhammer symbol](#) or [rising factorial](#)

Generalized Hypergeometric Functions

Ensheng Dong



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