

**Theory Of Hypergeometric Functions
Springer Monographs In Mathematics
2011 Edition By Aomoto Kazuhiko
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Particular case of Hypergeometric series *Hypergeometric Distribution part 1* **Part3 Gauss theorem and Vondermonde's theorem in hypergeometric function |vondermonde's theorem|** Run Part4 solution of Hypergeometric equation |solution of Gauss hypergeometric equation|for BSc MSc and Hypergeometric Summation Integral representation of hypergeometric functions || special Functions *Part2 Integral representation for the hypergeometric function |Hypergeometric functions|* run by Hypergeometric function, integral representation of Gauss's hypergeometric function ,gauss's theorem *Series Solutions to Odes: Confluent Hypergeometric (Kummer) Equation using Method of Frobenius* part5 Questions based on Hypergeometric function |hypergeometric function| run by Manoj Kumar Theory Of Hypergeometric Functions Springer

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Springer Monographs in Mathematics. Presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables. Offers a quick introduction to rational de Rham cohomology due to A. Grothendieck and P. Deligne and also to holonomic differential equations (or Gauss-Manin connection) and difference equations associated with hypergeometric functions.

Theory of Hypergeometric Functions—Springer

Introduction. This book presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables. Starting from an integrand which is a product of powers of polynomials, integrals are explained, in an open affine space, as a pair of twisted de Rham cohomology and its dual over the coefficients of local system.

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Theory of Hypergeometric Functions—springer

We consider some hypergeometric functions and prove that they are elementary functions. Consequently, the second order moments of Meyer-König and Zeller type operators are elementary functions. The higher order moments of these operators are expressed in terms of elementary functions and polylogarithms. Other applications are concerned with the expansion of certain Heun functions in series or ...

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Elementary hypergeometric functions ... — link.springer.com

In this talk we give a survey of our recent results on multidimensional hypergeometric functions [GZK 1,2,7], Before developing the general theory we briefly discuss main features of the classical Gauss function $F(x) = {}_2F_1(a, b; c; x)$. By definition, $F(x)$ is the solution of the hypergeometric equation

~~Hypergeometric Functions, Toric Varieties and Newton ...~~

Remark that the theory of q -analogues of Grassmannians and of related generalizations of Gel'fand hypergeometric functions is under elaboration (see, for example, [432]).

Keywords Linear Subspace Hypergeometric Function
Hypergeometric Series General Hypergeometric Function
Gauss Hypergeometric Function

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The subject of this book is the higher transcendental function known as the confluent hypergeometric function. In the last two decades this function has taken on an ever increasing significance because of its use in the application of mathematics to physical and technical problems.

~~The Confluent Hypergeometric Function — Springer~~

Aomoto K., Kita M. (2011) Arrangement of Hyperplanes and Hypergeometric Functions over Grassmannians. In: Theory of Hypergeometric Functions. Springer Monographs in Mathematics.

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representing hypergeometric functions of several variables starting from an integrand which is a product of powers of polynomials integrals are explained Generalized Hypergeometric Functions With Springer generalized hypergeometric functions with applications in statistics and physical sciences authors mathai a m saxena r k free preview

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The hypergeometric function is a solution of Euler's

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hypergeometric differential equation $z(1-z) \frac{d^2 w}{dz^2} + [c - (a+b+1)z] \frac{dw}{dz} - ab w = 0$. $\left\{ \frac{d^2 w}{dz^2} + \left[\frac{c - (a+b+1)z}{z(1-z)} \right] \frac{dw}{dz} - ab w = 0 \right\}$

[Hypergeometric function — Wikipedia](#)

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