

# Theory Of Hypergeometric Functions Springer Monographs In Mathematics 2011 Edition By Aomoto Kazuhiko Kita Michitake 2011 Hardcover

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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.

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## ~~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 ...

## ~~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

## ~~Gel'fand Hypergeometric Functions | SpringerLink~~

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.

## ~~Arrangement of Hyperplanes and Hypergeometric Functions ...~~

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The subjects treated in this book have been especially chosen to represent a bridge connecting the content of a first course on the elementary theory of analytic functions with a rigorous treatment of some of the most important special functions: the Euler gamma function, the Gauss hypergeometric function, and the Kummer confluent hypergeometric function.

~~An Introduction to Special Functions | Carlo Viola | Springer~~

In this Letter, we present a new approach to the notion of hypergeometric functions. In this Letter, we present a new approach to the notion of hypergeometric functions. ... Gelfand, I. M.: General theory of hypergeometric functions, Soviet Math. Dokl. 33 (1986), 573–577. ... Springer Nature

~~GG Functions and their Relations to General Hypergeometric ...~~

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.

~~—Theory of Hypergeometric Functions on Apple Books~~

The hypergeometric function is a solution of Euler's hypergeometric differential equation 
$$z(1-z)\frac{d^2w}{dz^2} + [c - (a+b+1)z]\frac{dw}{dz} - abw = 0.$$

~~Hypergeometric function — Wikipedia~~

springer 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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