

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

Theory of Hypergeometric Functions The Confluent Hypergeometric
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Hypergeometric Functions with Applications in Statistics and Physical
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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 it is shown that hypergeometric integrals generally satisfy a holonomic system of linear differential equations with respect to the coefficients of polynomials and also satisfy a holonomic system of linear difference equations with respect to the exponents these are deduced from grothendieck deligne s rational de rham cohomology on the one hand and by multidimensional extension of birkhoff s classical theory on analytic difference equations on the other

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 there is no doubt that this trend will continue until the general theory of confluent hypergeometric functions becomes familiar to the majority of physicists in much the same way as the cylinder functions which were previously less well known are now used in many engineering and physical problems this book is intended to further this development the important practical significance of the functions which are treated hardly demands an involved discussion since they include as special cases a number of simpler special functions which have long been the everyday tool of the physicist it is sufficient to mention that these include among others the logarithmic integral the integral sine and cosine the error integral the fresnel integral the cylinder

functions and the cylinder function in parabolic cylindrical coordinates for anyone who puts forth the effort to study the confluent hypergeometric function in more detail there is the inestimable advantage of being able to understand the properties of other functions derivable from it this general point of view is particularly useful in connection with series expansions valid for values of the argument near zero or infinity and in connection with the various integral representations

this is the second of three volumes that form the encyclopedia of special functions an extensive update of the bateman manuscript project volume 2 covers multivariable special functions when the bateman project appeared study of these was in an early stage but revolutionary developments began to be made in the 1980s and have continued ever since world renowned experts survey these over the course of 12 chapters each containing an extensive bibliography the reader encounters different perspectives on a wide range of topics from dunkl theory to macdonald theory to the various deep generalizations of classical hypergeometric functions to the several variables case including the elliptic level particular attention is paid to the close relation of the subject with lie theory geometry mathematical physics and combinatorics

this volume is a collection of research and survey articles by eminent and active workers around the world on the various areas of current research in the theory of analytic functions many of these articles emerged essentially from the proceedings of and various deliberations at three recent conferences in japan and korea an international seminar on current topics in univalent functions and their applications which was held in august 1990 in conjunction with the international congress of mathematicians at kyoto at kinki university in osaka an international seminar on univalent functions fractional calculus and their applications which was held in october 1990 at fukuoka university and also the japan korea symposium on univalent functions which was held in january 1991 at gyeongsang national university in chinju

the subject of special functions is often presented as a collection of disparate results which are rarely organised in a coherent way this book answers the need for a different approach to the subject the authors main goals are to emphasise general unifying principles coherently and to provide clear motivation efficient proofs and original references for all of the principal results the book covers standard material but also

much more including chapters on discrete orthogonal polynomials and elliptic functions the authors show how a very large part of the subject traces back to two equations the hypergeometric equation and the confluent hypergeometric equation and describe the various ways in which these equations are canonical and special providing ready access to theory and formulas this book serves as an ideal graduate level textbook as well as a convenient reference

this issue is a continuation of the previous successful special issue mathematical analysis and applications mdpj.com journal axioms special issues mathematical analysis investigations involving the theory and applications of mathematical analytical tools and techniques are remarkably widespread in many diverse areas of the mathematical physical chemical engineering and statistical sciences in this special issue we invite and welcome review expository and original research articles dealing with the recent advances in mathematical analysis and its multidisciplinary applications

the table of integrals series and products is the major reference source for integrals in the english language it is designed for use by mathematicians scientists and professional engineers who need to solve complex mathematical problems completely reset edition of gradshcheyn and ryzhik reference book new entries and sections kept in original numbering system with an expanded bibliography enlargement of material on orthogonal polynomials theta functions laplace and fourier transform pairs and much more

some of the most active practitioners in the field of integrable systems have been asked to describe what they think of as the problems and results which seem to be most interesting and important now and are likely to influence future directions the papers in this collection representing their authors responses offer a broad panorama of the subject as it enters the 1990 s

many of the special functions of applied mathematics can be expressed in terms of hypergeometric functions in this book each special function is seen to arise in one or more physical contexts as a solution of a differential equation that can be transformed into a hypergeometric equation the special function is then defined in terms of a generalized hypergeometric function and the equivalence to alternate definitions is

established many of the interesting and important properties of the special functions that one encounters in standard upper level textbooks on engineering they physical sciences and other branches of applied mathematics are derived the close connection of the development with applications is emphasized throughout the book in the text and in the exercises

there are various interesting stories about the hypergeometric differential equation ${}_2F_1(a, b; c; x)$ and its solution the hypergeometric function among others i love the following story when $a, b, c \in \mathbb{Z}$ the ratio of linearly independent solutions defines a multi valued map its monodromy group is $\Gamma(2)$ mod 2 the map

the present book is about the q -askey scheme and the q -askey scheme which are graphically displayed right before chapter 9 and chapter 14 respectively the families of orthogonal polynomials in these two schemes generalize the classical orthogonal polynomials jacobi laguerre and hermite polynomials and they have properties similar to them in fact they have properties so similar that i am inclined following andrews askey 34 to call all families in the q -askey scheme classical orthogonal polynomials and to call the jacobi laguerre and hermite polynomials very classical orthogonal polynomials these very classical orthogonal polynomials are good friends of mine since most the beginning of my mathematical career when i was a fresh phd student at the mathematical centre now cwi in amsterdam dick askey spent a sabbatical there during the academic year 1969 1970 he lectured to us in a very stimulating way about hypergeometric functions and classical orthogonal polynomials even better he gave us problems to solve which might be worth a phd he also pointed out to us that there was more than just jacobi laguerre and hermite polynomials for instance hahn polynomials and that it was one of the merits of the higher transcendental functions bateman project that it included some newer stuff like the hahn polynomials see 198 10 23

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Introduction

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