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Certain q-Integrals Involving the Generalized Hypergeometric and Basic Hypergeometric Functions

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Abstract: The aim of this paper is to establish certain new q-integrals involving the generalized Heines hypergeometric function, generalized q-confluent hypergeometric function. Our main findings are capable of yielding a large number of new, interesting, and useful q-integrals, expansion formulas involving the hypergeometric and basic hypergeometric functions.

Keywords: Finite q-integrals, Generalized q-confluent hypergeometric function, Generalized Heine's hypergeometric function

1 Introduction

The q-calculus is the extension of the ordinary calculus. The subject deals with the investigations of q-integrals and q- derivatives of arbitrary order and has gained importance due to its various applications in the areas like ordinary calculus, solution of the q-differential and q-integral equations, q-transform analysis [3,6,8,9]. Motivated by these avenues of applications, a number of workers have made use of these operators to evaluate q-calculus, basic analogue of H-function, basic analogue of I-function, general class of q-polynomials etc.

Some fundamental properties and characteristics of the generalized Beta type function are as

$$B_{\rho}^{\alpha,\beta}(x,y) = \int_{0}^{1} t^{s-1} (1-t)_{1}^{\gamma-1} F_{1}(\alpha;\beta;\frac{-\rho}{r(1-t)}) dt, \quad (1)$$

For
$$R(\rho) > 0$$
, $minR(x)$, $R(y)$, $R(\alpha)$, $R(\beta) > 0$, and
 $R^{(\alpha,\beta)}(x, y) = R(x, y)$

were introduced and studied in [1], where

$$B(x, y) = \int_0^1 t^{s-1} (1-t)^{y-1} dt$$

For $\Re(x) > 0$ and $\Re(y) > 0$ is the well-known Euler Beta function.

See also [2]and [1].

The q-gamma function was first introduced by Thomae and later by Jackson.

The q-analogue of gamma function which is defined by

F.H. Jackson [7] is given by

$$\Gamma_q(x) = \frac{(q;q)-(1-q)^{1-s}}{(q^s;q)-}, 0 < q < 1$$

And the q-analogue of Beta function is defined as:

$$B_q(x, y) = \frac{\Gamma_q(x)\Gamma_q(y)}{\Gamma_q(x + y)}$$

The q-analogue of the generalized Beta and Gamma function is defined as follows

$$B_{p}^{\alpha,\beta}(x,y;q) = \int_{0}^{0} t^{s-1} (1-qt)_{1}^{s-1} \phi_{1}(\alpha;\beta;\frac{-\rho}{r(1-qt)};q) d_{q}t,$$
 (2)
 $\Re(\rho) \ge 0, \min R(x), R(y), R(\alpha), R(\beta) > 0, \text{ and } |q| < 1,$

$$B_0^{\alpha,\beta}(x,y;q)=B(x,y;q)=\int_0^1 r^{s-1}(1-qr)^{s-1}d_qt,$$

We also know that

$$B_q(\lambda + n, \delta) = \frac{(\lambda, q)_n}{\lambda + \delta, q_n} B_q(\lambda, \delta),$$
 (3)

$$\begin{split} I_{p}^{-\alpha,\beta}(x;q) &= \int_{0}^{\infty} r_{1}^{r-1} \varphi_{1}(\alpha;\beta;-r-\frac{p}{r};q) d_{q}r, \\ \text{If } p &= 0, \alpha = \beta = 1, \text{ then} \end{split}$$

$$F_{q}(x;q) = \int_{0}^{\infty} r_{1}^{s-1} \varphi_{1}(\alpha;\beta;-r;q) d_{q}r, \ F(x;q) = \int_{0}^{\infty} r^{s-1} E_{q}^{-q'} d_{q'}r$$

Heine's hypergeometric function is given by

$$_{2}\varphi_{1}(a,b;c;z;q) = \sum_{n=0}^{n} \frac{(a;q)_{n}(b;q)_{n}z^{n}}{(c;q)_{n}(q;q)_{n}}$$

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Geoffrey B. Campbell

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Generalized plithogenic whole hypersoft set, PFHSS-Matrix, operators and applications as COVID-19 data structures Shazia Rana, Muhammad Saeed, Madiha Qayyum, Florentin Smarandache, 2023-01-01 This article is a preliminary draft for initiating and commencing a new pioneer dimension of expression To deal with higher dimensional data or information flowing in this modern era of information technology and artificial intelligence some innovative super algebraic structures are essential to be formulated In this paper we have introduced such matrices that have multiple layers and clusters of layers to portray multi dimensional data or massively dispersed information of the plithogenic universe made up of numerous subjects their attributes and sub attributes For grasping that field of parallel information events and realities flowing from the micro to the macro level of universes we have constructed hypersoft and hyper super soft matrices in a Plithogenic Fuzzy environment These Matrices classify the non physical attributes by accumulating the physical subjects and further sort the physical subjects by accumulating their non physical attributes We presented

themasPlithogenicAttributiveSubjectivelyWholeHyper Super Soft Matrix PASWHSS Matrix andPlithogenic Subjective Attributively Whole Hyper Super Soft Matrix PSAWHSS Matrix Several types of views and level layers of these matrices are described In addition some local aggregation operators for Plithogenic Fuzzy Hypersoft Set PPFHS Set are developed Finally few applications of these matrices and operators are used as numerical examples of COVID 19 data structures Path **Player Games** Silvia Schwarze, 2009-03-02 A path player game is a new innovative type of game which considers network flow problems from the viewpoint of network owners This strategy enables modeling real world problems and has many practical applications Key features Presents a rigorous exposition of the theoretical foundations of the concept of a path player game Suggests 18 practical open problems for future research in such areas as traffic planning computation of equilibria and optimization Examines potentials for games on polyhedra as well as integer versions of generalized Nash equilibria Written clearly with well presented mathematics this book is intended for graduate students mathematicians engineers and computer scientists Hypergeometric Functions and Their Applications James B. Seaborn, 2013-04-09 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the clas sical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathe matical Sciences

AMS series which will focus on advanced textbooks and research level monographs Preface A wide range of problems exists in classical and quantum physics engi neering and applied mathematics in which special functions arise The procedure followed in most texts on these topics e q quantum mechanics electrodynamics modern physics classical mechanics etc is to formu late the problem as a differential equation that is related to one of several special differential equations Hermite s Bessel s Laguerre s Legendre s etc Representations of Lie Algebras and Partial Differential Equations Xiaoping Xu,2017-10-16 This book provides explicit representations of finite dimensional simple Lie algebras related partial differential equations linear orthogonal algebraic codes combinatorics and algebraic varieties summarizing the author s works and his joint works with his former students Further it presents various oscillator generalizations of the classical representation theorem on harmonic polynomials and highlights new functors from the representation category of a simple Lie algebra to that of another simple Lie algebra Partial differential equations play a key role in solving certain representation problems The weight matrices of the minimal and adjoint representations over the simple Lie algebras of types E and F are proved to generate ternary orthogonal linear codes with large minimal distances New multi variable hypergeometric functions related to the root systems of simple Lie algebras are introduced in connection with quantum many body systems in one dimension In addition the book identifies certain equivalent combinatorial properties on representation formulas and the irreducibility of representations is proved directly related to algebraic varieties. The book offers a valuable reference guide for mathematicians and scientists alike As it is largely self contained readers need only a minimal background in calculus and linear algebra it can also be used as a textbook Hyperelasticity Primer Robert M. Hackett, 2018-03-31 This book introduces the subject of hyperelasticity in a concise manner mainly directed to students of solid mechanics who have a familiarity with continuum mechanics It focuses on important introductory topics in the field of nonlinear material behavior and presents a number of example problems and solutions to greatly aid the student in mastering the difficulty of the subject and gaining necessary insight Professor Hackett delineates the concepts and applications of hyperelasticity in such a way that a new student of the subject can absorb the intricate details without having to wade through excessively complicated formulations The book further presents significant review material on intricately related subjects such as tensor calculus and introduces some new formulations **Electromagnetic Wave Propagation in Turbulence** Richard J. Sasiela, 2012-12-06 Electromagnetic Wave Propagation in Turbulence is devoted to a method for obtaining analytical solutions to problems of electromagnetic wave propagation in turbulence In a systematic way the monograph presents the Mellin transforms to evaluate analytically integrals that are not in integral tables Ample examples of application are outlined and solutions for many problems in turbulence theory are given The method itself relates to asymptotic results that are applicable to a broad class of problems for which many asymptotic methods had to be employed previously Tensor Analysis Ligun Qi, Ziyan Luo, 2017-04-19 Tensors or hypermatrices are multi arrays with more than two

indices In the last decade or so many concepts and results in matrix theory some of which are nontrivial have been extended to tensors and have a wide range of applications for example spectral hypergraph theory higher order Markov chains polynomial optimization magnetic resonance imaging automatic control and guantum entanglement problems The authors provide a comprehensive discussion of this new theory of tensors Tensor Analysis Spectral Theory and Special Tensors is unique in that it is the first book on these three subject areas spectral theory of tensors the theory of special tensors including nonnegative tensors positive semidefinite tensors completely positive tensors and copositive tensors and the spectral hypergraph theory via tensors Automata, Languages and Programming Josep Diaz, Juhani Karhumäki, Arto Lepistö, Donald Sannella, 2004-07-09 The 31st International Colloquium on Automata Languages and Programming ICALP 2004 was held from July 12 to July 16 in Turku Finland This volume contains all contributed papers presented at ICALP 2004 together with the invitedlecturesbyPhilippeFlajolet INRIA RobertHarper CarnegieMellon Monika Henzinger Google Martin Hofmann Munich Alexander Razborov Princeton and Moscow Wojciech Rytter Warsaw and NJIT and Mihalis Yannakakis Stanford ICALP is a series of annual conferences of the European Association for Theoretical Computer Science EATCS The rst ICALP took place in 1972 and the ICALP program currently consists of track A focusing on algorithms automata complexity and cryptography and track B focusing on databases logics semantics and principles of programming Inresponse to the call for papers the program committee received 379 papers 272 for track A and 107 for track B This is the highest number of submitted papersinthehistoryofICALPconferences Theprogramcommitteesselected97 papersforinclusionintothescienti cprogram Theprogram committeefortrack A met on March 27 and 28 in Barcelona and selected 69 papers from track A Theprogram committee for trackBselected 28 papers from trackBinthecourse of an electronic discussion lasting for two weeks in the second half of March The selections were based on originality quality and relevance to theor ical computer science We wish to thank all authors who submitted extended abstracts for consideration the program committee for its hard work and all referees who assisted the program committee in the evaluation process

Encyclopaedia of Mathematics Michiel Hazewinkel,2012-12-06 This is the second supplementary volume to Kluwer s highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available *Microlocal Analysis and Complex Fourier Analysis* Keiko Fujita, Takahiro Kawai, 2002 This book is a collection of original papers on microlocal analysis Fourier analysis in the complex domain generalized functions and related topics Most of the papers originate from the talks given at the conference OC Prospects of Generalized FunctionsOCO in November 2001 at RIMS Kyoto Reflecting the fact that the papers except M Morimoto s one are dedicated to Mitsuo

Morimoto the subjects considered in this book are interdisciplinary just as Morimoto's works are The historical backgrounds of the subjects are also discussed in depth in some contributions Thus this book should be valuable not only to the specialists in the fields but also to those who are interested in the history of modern mathematics such as distributions and **On Einstein's Path** Alex Harvey, 2012-12-06 Friends and colleagues of Engelbert Schucking came hyperfunctions together in a symposium on the 12th and 13th of December 1996 at New York University to celebrate and express to him their respect admiration and affection They came to celebrate his scientific and scholarly achievements the inspirational guality of his teaching his graciousness as a colleague his thoughtful guidance of graduate students his service to the department the university and the physics community at large and not least his open courteous easy accessibility to anyone needing his counselor expertise The announcement was A SYMPOSIUM In Honor of PROF ENGELBERT SCHUCKING Physics Department New York University On December 12th and 13th there will be a Symposium to honor Professor Engel bert Schucking for his service to the University the Department and the Physics Community The December 12th session will run from 1 to 6 PM followed by a reception The following morning the session will run from 9 AM to 1 PM Atten dance including the reception is open to all friends and colleagues of Professor Schucking and anyone interested in General Relativity The talks will be presented in Room 121 4 Washington Place the reception will be in the office of Dean Furmankis 5 Washington Square North from 6 15 to 8 00 PM Thursday Afternoon Greetings Alice S **Advanced Studies in Contemporary Mathematics**,2005 Topological Geometrodynamics Matti Pitkanen, 2006 Topological GeometroDynamics is a modification of general relativity inspired by the conceptual problems related to the definitions of inertial and gravitational energy in general relativity Topological geometrodynamics can be also seen as a generalization of super string models Physical space times are seen as four dimensional surfaces in certain eight dimensional space The choice of this space is fixed by symmetries of the standard model so that geometrization of known classical fields and elementary particle quantum numbers results The notion of many sheeted space time allows re interpretation of the structures of perceived world in terms of macroscopic space time topology The generalization of the number concept based on fusion of real numbers and p adic number fields implies a further generalization of the space time concept allowing to identify space time correlates of cognition and intentionality Quantum measurement theory extended to a quantum theory of consciousness becomes an organic part of theory A highly non trivial prediction is the existence of a fractal hierarchy of copies of standard model physics with dark matter identified in terms of macroscopic quantum phases characterized by dynamical and quantized Planck constant The book is a comprehensive overview and analysis of topological geometrodynamics as a mathematical and physical theory **Soft Soil Engineering** A.K.L. Kwong, 2017-10-06 This volume contains seven keynote lectures and over 100 technical contributions by scientists researchers engineers and students from more than 25 countries and regions worldwide on the subject of soft soil engineering *Meta Sapiens : a Brief History of Human Psychology*

BIDIGA ABDOUL-BASSITI, Overview In Meta Sapiens Bassiti Bidiga offers an exploration into the meanderings of human psychology and the complexity of our evolutionary past This work delves into the heart of what it means to be human examining the forces that have shaped our thoughts actions and societies through the ages About the Book Embark on a captivating journey with Bidiga as he unveils the layers of the human psyche From the primal instincts of our earliest ancestors to the subtleties of modern cognition Meta Sapiens weaves a tapestry of science history and psychology This book offers a fresh perspective on pressing questions of our time including the resurgence of nationalism the art of persuasion and the profound impact of technological advancements on our future Meta Sapiens is more than a book it s a journey through time Bidiga challenges readers with provocative questions What drives the decision making of history s greatest leaders How do ancient instincts manifest in today s social interactions The book not only revisits our evolutionary path but also propels us towards a deeper and richer understanding of our identity and our role in a rapidly changing world Key Features Insightful blend of scientific research historical narrative and psychological analysis Provocative questions that encourage readers to think critically about their own nature and the world around them A unique perspective on human evolution providing clarity on how our past influences the present and future For Whom Meta Sapiens is a read for anyone intrigued by the mysteries of human behavior the trajectory of human evolution and the profound questions of psychology Whether you are a student academic or simply a curious mind this book offers valuable insights that will change the way you view humanity and its place in the history of life on Earth Rediscover humanity through the lens of Meta Sapiens and embark on a journey to understand the roots of our existence and the potential paths of our future evolution **Transportation Systems Analysis** Ennio Cascetta, 2009-08-22 This book provides a rigorous and comprehensive coverage of transportation models and planning methods and is a must have to anyone in the transportation community including students teachers and practitioners Moshe Mathematical Reviews .2003 **Collected Papers. Volume X** Ben Akiva Massachusetts Institute of Technology Florentin Smarandache, 2022-06-01 This tenth volume of Collected Papers includes 86 papers in English and Spanish languages comprising 972 pages written between 2014 2022 by the author alone or in collaboration with the following 105 co authors alphabetically ordered from 26 countries Abu Su an Ali Hassan Ali Safaa Sadiq Anirudha Ghosh Assia Bakali Atiqe Ur Rahman Laura Bogdan Willem K M Brauers Erick Gonz lez Caballero Fausto Cavallaro Gavril Calefariu T Chalapathi Victor Christianto Mihaela Colhon Sergiu Boris Cononovici Mamoni Dhar Irfan Deli Rebeca Escobar Jara Alexandru Gal N Gandotra Sudipta Gayen Vassilis C Gerogiannis Noel Batista Hern ndez Hongnian Yu Hongbo Wang Mihaiela Iliescu F Nirmala Irudayam Sripati Jha Darjan Karaba evi T Katican Bakhtawar Ali Khan Hina Khan Volodymyr Krasnoholovets R Kiran Kumar Manoranjan Kumar Singh Ranjan Kumar M Lathamaheswari Yasar Mahmood Nivetha Martin Adrian M rgean Octavian Melinte Mingcong Deng Marcel Migdalovici Monika Moga Sana Moin Mohamed Abdel Basset Mohamed Elhoseny Rehab Mohamed Mohamed Talea Kalyan Mondal Muhammad Aslam Muhammad Aslam Malik Muhammad Ihsan Muhammad

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Path Integrals, Hyperbolic Spaces and Selberg Trace Formulae Christian Grosche, 2013 In this second edition a comprehensive review is given for path integration in two and three dimensional homogeneous spaces of constant and non

constant curvature including an enumeration of all the corresponding coordinate systems which allow separation of variables in the Hamiltonian and in the path integral The corresponding path integral solutions are presented as a tabulation Proposals concerning interbasis expansions for spheroidal coordinate systems are also given In particular the cases of non constant curvature Darboux spaces are new in this edition The volume also contains results on the numerical study of the properties of several integrable billiard systems in compact domains i e rectangles parallelepipeds circles and spheres in two and three dimensional flat and hyperbolic spaces In particular the discussions of integrable billiards in circles and spheres flat and hyperbolic spaces and in three dimensions are new in comparison to the first edition In addition an overview is presented on some recent achievements in the theory of the Selberg trace formula on Riemann surfaces its super generalization their use in mathematical physics and string theory and some further results derived from the Selberg super trace formula This is likewise one of the factors by obtaining the soft documents of this **Path Functions Generalized Basic Hyper** by online. You might not require more epoch to spend to go to the books establishment as skillfully as search for them. In some cases, you likewise get not discover the statement Path Functions Generalized Basic Hyper that you are looking for. It will unconditionally squander the time.

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