



A note on Turán type and mean inequalities for the Kummer function

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ABSTRACT

Turán-type inequalities for combinations of Kummer functions involving $\Phi(a \pm v, c \pm v, x)$ and $\Phi(a, c \pm v, x)$ have been recently investigated in [Á. Baricz, Functional inequalities involving Bessel and modified Bessel functions of the first kind, Expo. Math. 26 (3) (2008) 279–293; M.E.H. Ismail, A. Laforgia, Monotonicity properties of determinants of special functions, Constr. Approx. 26 (2007) 1–9]. In the current paper, we resolve the corresponding Turán-type and closely related mean inequalities for the additional case involving $\Phi(a \pm v, c, x)$. The application to modeling credit risk is also summarized.

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1. Introduction

The Kummer confluent hypergeometric function is given by

$$\Phi(\alpha, \beta, x) = \sum_{n=0}^{\infty} \frac{(\alpha)_n x^n}{(\beta)_n n!},$$

where $(\alpha)_n$ is the Pochhammer symbol defined by $(\alpha)_n = \Gamma(\alpha + n)/\Gamma(\alpha) = \alpha(\alpha + 1) \cdots (\alpha + n - 1)$ for $n \in \mathbb{N}$, $(\alpha)_0 = 1$, $(\alpha + 1)_{-1} = \frac{1}{\alpha}$, and the Gamma function is $\Gamma(x) = \int_0^{\infty} t^{x-1} e^{-t} dt$, for $x > 0$.

Inequalities involving contiguous Kummer confluent hypergeometric functions of the form $\Phi(a \pm v, c \pm v, x)$ and $\Phi(a, c \pm v, x)$ were presented in Theorem 2 of [4] and Theorem 2.7 of [11]. These inequalities are of the Turán type [15] in the case that $v = 1$. In the present note, we resolve the remaining Turán-type case involving $\Phi(a \pm 1, c, x)$ and extend it to include $\Phi(a \pm v, c, x)$, $v \in \mathbb{N}$. We then establish a closely related mean inequality that provides simultaneous upper and lower bounds for $\Phi(a, c, x)$. Turán-type inequalities, which are of independent interest, also have important applications in Information Theory (as demonstrated by McEliece, Reznick, and Shearer in their paper [12]) and in modeling credit risk, as summarized below.

In particular, Carey and Gordy [9] model a lending relationship in which the bank has an option to foreclose upon the borrower at any time. Following the seminal models of Merton [13] and Black and Cox [6], it is assumed that the value of the firm's assets follows a geometric Brownian motion. It is shown that the bank's optimal foreclosure threshold solves a first order condition involving a ratio of contiguous Kummer functions, which implies that a Turán-type inequality for the Kummer function arises naturally in studying the comparative statics of the model. A proof of this key Turán-type

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Proceedings of 2nd International Conference on Mathematical Modeling and Computational Science Sheng-Lung Peng, Cheng-Kuan Lin, Souvik Pal, 2022-06-28 The conference proceeding of ICMMCS 2021 presents most recent scientific and technological advances in the fields of engineering mathematics and computational science to strengthen the links in the scientific community It is a collection of high quality peer reviewed research papers presented at the Second International Conference on Mathematical Modeling and Computational Science ICMMCS 2021 held online during October 29 30 2021 The topics covered in the book are mathematical logic and foundations numerical analysis neural networks fuzzy set theory coding theory higher algebra number theory graph theory and combinatory computation in complex networks calculus differential equations and integration application of soft computing knowledge engineering machine learning artificial intelligence big data and data analytics high performance computing network and device security Internet of Things IoT

Proceedings of the Fifth International Conference on Mathematics and Computing Debasis Giri, Anthony T. S. Ho, S. Ponnusamy, Nai-Wei Lo, 2020-11-25 This book features selected papers from the 5th International Conference on Mathematics and Computing ICMC 2019 organized by the School of Computer Engineering Kalinga Institute of Industrial Technology Bhubaneswar India on February 6 9 2019 Covering recent advances in the field of mathematics statistics and scientific computing the book presents innovative work by leading academics researchers and experts from industry

Analysis of Structures on Elastic Foundation Levon G. Petrosian, 2022-06-12 This book is devoted to the static and dynamic analysis of structures on elastic foundation Through comprehensive analysis the book shows analytical and mechanical relationships among classic and modern methods of solving boundary value problems The book provides a wide spectrum of applications of modern techniques and methods of calculation of static and dynamic problems of engineering design It pursues both methodological and practical purposes and the accounting of all methods is accompanied by solutions of the specific problems which are not merely illustrative in nature but may represent an independent interest in the study of various technical issues Two special features of the book are the extensive use of the generalized functions for describing the impacts on structures and the substantiations of the methods of the apparatus of the generalized functions The book illustrates modern methods for solving boundary value problems of structural mechanics and soil mechanics based on the application of boundary equations The book presents the philosophy of boundary equations and boundary element methods A number of examples of solving different problems of static and dynamic calculation of structures on an elastic foundation are given according to the methods presented in the book Introduces a general approach to the method of integral transforms based on the spectral theory of the linear differential operators The Spectral Method of Boundary Element SMBE is developed based on using integral transforms with an orthogonal kernel in the extended domain Presents a new versatile foundation model with a number of advantages over the ground based models currently used in practical calculations

Provides new transforms which will aid in solving various problems relevant to bars beams plates and shells in particular for the structures on elastic foundation Examines the methods of solving boundary value problems typical for structural mechanics and related fields Handbook of Quantum Logic and Quantum Structures Kurt Engesser, Dov M. Gabbay, Daniel Lehmann, 2011-08-11 Since its inception in the famous 1936 paper by Birkhoff and von Neumann entitled The logic of quantum mechanics quantum logic i e the logical investigation of quantum mechanics has undergone an enormous development Various schools of thought and approaches have emerged and there are a variety of technical results Quantum logic is a heterogeneous field of research ranging from investigations which may be termed logical in the traditional sense to studies focusing on structures which are on the border between algebra and logic For the latter structures the term quantum structures is appropriate The chapters of this Handbook which are authored by the most eminent scholars in the field constitute a comprehensive presentation of the main schools approaches and results in the field of quantum logic and quantum structures Much of the material presented is of recent origin representing the frontier of the subject The present volume focuses on quantum structures Among the structures studied extensively in this volume are just to name a few Hilbert lattices D posets effect algebras MV algebras partially ordered Abelian groups and those structures underlying quantum probability Written by eminent scholars in the field of logic A comprehensive presentation of the theory approaches and results in the field of quantum logic Volume focuses on quantum structures Modeling and Analysis of Linear Hyperbolic Systems of Balance Laws Krzysztof Bartecki, 2015-12-21 This monograph focuses on the mathematical modeling of distributed parameter systems in which mass energy transport or wave propagation phenomena occur and which are described by partial differential equations of hyperbolic type The case of linear or linearized 2×2 hyperbolic systems of balance laws is considered i e systems described by two coupled linear partial differential equations with two variables representing physical quantities depending on both time and one dimensional spatial variable Based on practical examples of a double pipe heat exchanger and a transportation pipeline two typical configurations of boundary input signals are analyzed collocated wherein both signals affect the system at the same spatial point and anti collocated in which the input signals are applied to the two different end points of the system The results of this book emerge from the practical experience of the author gained during his studies conducted in the experimental installation of a heat exchange center as well as from his research experience in the field of mathematical and computer modeling of dynamic systems The book presents valuable results concerning their state space transfer function and time domain representations which can be useful both for the open loop analysis as well as for the closed loop design The book is primarily intended to help professionals as well as undergraduate and postgraduate students involved in modeling and automatic control of dynamic systems **International Journal of Mathematical Combinatorics, Volume 3, 2016** Linfan Mao, The mathematical combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe The

International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences **Fluid Mechanics and Fluid Power (Vol. 1)** Suvanjan

Bhattacharyya,Himadri Chattopadhyay,2023-03-29 This book presents the select proceedings of the 48th National Conference on Fluid Mechanics and Fluid Power FMFP 2021 held at BITS Pilani in December 2021 It covers the topics such as fluid mechanics measurement techniques in fluid flows computational fluid dynamics instability transition and turbulence fluid structure interaction multiphase flows micro and nanoscale transport bio fluid mechanics aerodynamics turbomachinery propulsion and power The book will be useful for researchers and professionals interested in the broad field of mechanics

Analysis and Control for Fractional-order Systems Yonggui Kao,Changhong Wang,Hongwei Xia,Yue Cao,2024-07-07 This book focuses on the applications of various types of fractional order differential equations The authors present their latest research results This book for the first time introduces the concept of general fractional chaotic systems and their synchronisation investigates the synchronisation of a fractional coupled reaction diffusion system using a sliding mode control approach and considers the impacts of fear and prey escape on a fractional order prey predator system with Beddington DeAngelis functional response Authors believe that these recent research results can promote the applications of fractional order differential equations in diverse areas The book will be attractive to researchers in various fields of mathematics biomathematics and engineering Graduate students in related fields may also find this book useful

Proceedings of the Sixth International Conference on Mathematics and Computing Debasis Giri,Rajkumar Buyya,S. Ponnusamy,Debashis De,Andrew Adamatzky,Jemal H. Abawajy,2020-12-10 This book features selected papers from the 6th International Conference on Mathematics and Computing ICMC 2020 organized by Sikkim University Gangtok Sikkim India during September 2020 It covers recent advances in the field of mathematics statistics and scientific computing The book presents innovative work by leading academics researchers and experts from industry

Hygro-Thermo-Magneto-Electro-Elastic Theory of Anisotropic Doubly-Curved Shells Francesco Tornabene,2023-10-13 This book aims to present in depth several Higher order Shear Deformation Theories HSDTs by means of a unified approach for studying the Hygro Thermo Magneto Electro Elastic Theory of Anisotropic Doubly Curved Shells In particular a general coupled multifield theory regarding anisotropic shell structures is provided The three dimensional multifield problem is reduced in a two dimensional one following the principles of the Equivalent Single Layer ESL approach and the Equivalent Layer Wise ELW approach setting a proper configuration model According to the adopted configuration assumptions several Higher order Shear Deformation Theories HSDTs are obtained Furthermore the strong and weak formulations of the corresponding governing equations are discussed and illustrated The approach presented in this volume

is completely general and represents a valid tool to investigate the physical behavior of many arbitrarily shaped structures. An isogeometric mapping procedure is also illustrated to this aim. Special attention is given also to advanced and innovative constituents such as Carbon Nanotubes (CNTs), Variable Angle Tow (VAT) composites and Functionally Graded Materials (FGMs). In addition, several numerical applications are used to support the theoretical models. Accurate, efficient and reliable numerical techniques able to approximate both derivatives and integrals are considered, which are respectively the Differential Quadrature (DQ) and Integral Quadrature (IQ) methods. The Theory of Composite Thin Shells is derived in a simple and intuitive manner from the theory of thick and moderately thick shells. First order Shear Deformation Theory or Reissner-Mindlin Theory. In particular, the Kirchhoff-Love Theory and the Membrane Theory for composite shells are shown. Furthermore, the Theory of Composite Arches and Beams is also exposed. In particular, the equations of the Timoshenko Theory and the Euler-Bernoulli Theory are directly deduced from the equations of singly curved shells of translation and of plates.

Rough Fuzzy Image Analysis Sankar K. Pal, James F. Peters, 2010-05-04. Fuzzy sets, near sets and rough sets are useful and important stepping stones in a variety of approaches to image analysis. These three types of sets and their various hybridizations provide powerful frameworks for image analysis. Emphasizing the utility of fuzzy, near and rough sets in image analysis. **Rough Fuzzy Image Analysis: Foundations and Fractional-Order Models for Nuclear Reactor Analysis** Gilberto Espinosa Paredes, 2020-10-22. Fractional Order Models for Nuclear Reactor Analysis presents fractional modeling issues in the context of anomalous diffusion processes in an accessible and practical way. The book emphasizes the importance of non-Fickian diffusion in heterogeneous systems as the core of the nuclear reactor, as well as different variations of diffusion processes in nuclear reactors, which are presented to establish the importance of nuclear and thermohydraulic phenomena and the physical side effects of feedback. In addition, the book analyzes core issues in fractional modeling in nuclear reactors, surrounding phenomenological description and important analytical sub-diffusive processes in the transport neutron. Users will find the most innovative modeling techniques of nuclear reactors using operator differentials of fractional order and applications in nuclear design and reactor dynamics. Proposed methods are tested with Boltzmann equations and non-linear order models alongside real data from nuclear power plants, making this a valuable resource for nuclear professionals, researchers and graduate students as well as those working in nuclear research centers with expertise in mathematical modeling, physics and control. Presents and analyzes a new paradigm of nuclear reactor phenomena with fractional modeling. Considers principles of fractional calculation methods of solving differential equations of fractional order and their applications. Includes methodologies of linear and nonlinear analysis along with design and dynamic analyses.

Mathematics of Uncertainty Modeling in the Analysis of Engineering and Science Problems Chakraverty, S., 2014-01-31. This book provides the reader with basic concepts for soft computing and other methods for various means of uncertainty in handling solutions, analysis and applications. Provided by publisher. **Statistical Learning and Pattern Analysis for**

Image and Video Processing Nanning Zheng, Jianru Xue, 2009-07-25 Why are We Writing This Book Visual data graphical image video and visualized data affect every aspect of modern society The cheap collection storage and transmission of vast amounts of visual data have revolutionized the practice of science technology and business Innovations from various disciplines have been developed and applied to the task of designing intelligent machines that can automatically detect and exploit useful regularities patterns in visual data One such approach to machine intelligence is statistical learning and pattern analysis for visual data Over the past two decades rapid advances have been made throughout the field of visual pattern analysis Some fundamental problems including perceptual grouping image segmentation stereomatching object detection and recognition and motion analysis and visual tracking have become hot research topics and test beds in multiple areas of specialization including mathematics neuron biometry and cognition A great diversity of models and algorithms stemming from these disciplines has been proposed To address the issues of ill posed problems and uncertainties in visual pattern modeling and computing researchers have developed rich toolkits based on pattern analysis theory harmonic analysis and partial differential equations geometry and group theory graph matching and graph grammars Among these technologies involved in intelligent visual information processing statistical learning and pattern analysis is undoubtedly the most popular and important approach and it is also one of the most rapidly developing fields with many achievements in recent years Above all it provides a unifying theoretical framework for intelligent visual information processing applications

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Scientific Computing in Electrical Engineering SCEE 2008 Luis R.J. Costa, Janne Roos, 2010-06-14 This book is a collection of 65 selected papers presented at the 7th International Conference on Scientific Computing in Electrical Engineering SCEE held in Espoo Finland in 2008 The aim of the SCEE 2008 conference was to bring together scientists from academia and industry e.g. mathematicians electrical engineers computer scientists and physicists with the goal of intensive discussions on industrially relevant mathematical problems with an emphasis on modeling and numerical simulation of electronic circuits and devices electromagnetic fields and coupled problems This extensive reference work is divided into five parts 1 Computational electromagnetics 2 Circuit simulation 3 Coupled problems 4 Mathematical and computational methods and 5 Model order reduction Each part starts with a general introduction followed by the actual papers

International Journal of Applied Mathematics & Statistics ,2007 Applied

Mechanics Reviews ,1974 *International Journal of Mathematical Combinatorics, Volume 1, 2019* Linfan Mao, International J Mathematical Combinatorics is a fully refereed international journal Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Topological graphs Algebraic graphs Random graphs Combinatorial maps Graph and map enumeration Combinatorial designs Combinatorial enumeration Low Dimensional Topology Differential Topology Topology of Manifolds Geometrical aspects of Mathematical Physics and Relations with Manifold Topology Applications of Smarandache multi spaces to theoretical physics Applications of Combinatorics to mathematics and theoretical physics Mathematical theory on gravitational fields Mathematical theory on parallel universes Other applications of Smarandache multi space and combinatorics **International Journal of Mathematical Combinatorics, Volume 4, 2017** Linfan Mao, Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Topological graphs Algebraic graphs Random graphs Combinatorial maps Graph and map enumeration Combinatorial designs Combinatorial enumeration Low Dimensional Topology Differential Topology Topology of Manifolds Geometrical aspects of Mathematical Physics and Relations with Manifold Topology Applications of Smarandache multi spaces to theoretical physics Applications of Combinatorics to mathematics and theoretical physics

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