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**Functional Equations
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in Several Variables**

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Several Variables J. Aczél, J. Dhombres, 1989 This treatise deals with modern theory of functional equations in several variables and their applications to mathematics information theory and the natural behavioural and social sciences The authors have chosen to emphasize applications though not at the expense of theory so they have kept the prerequisites to a minimum *Functional Equations And Inequalities: Solutions And Stability Results* John Michael Rassias, E Thandapani, K

Ravi, B V Senthil Kumar, 2017-03-20 This volume covers the topic in functional equations in a broad sense and is written by authors who are in this field for the past 50 years It contains the basic notions of functional equations the methods of solving functional equations the growth of functional equations in the last four decades and an extensive reference list on fundamental research papers that investigate the stability results of different types of functional equations and functional inequalities This volume starts by taking the reader from the fundamental ideas to higher levels of results that appear in recent research papers Its step by step expositions are easy for the reader to understand and admire the elegant results and findings on the stability of functional equations **Functional Equations and Inequalities with Applications**

Palaniappan Kannappan, 2009-06-10 Functional Equations and Inequalities with Applications presents a comprehensive nearly encyclopedic study of the classical topic of functional equations Nowadays the field of functional equations is an ever growing branch of mathematics with far reaching applications it is increasingly used to investigate problems in mathematical analysis combinatorics biology information theory statistics physics the behavioral sciences and engineering This self contained monograph explores all aspects of functional equations and their applications to related topics such as differential equations integral equations the Laplace transformation the calculus of finite differences and many other basic tools in analysis Each chapter examines a particular family of equations and gives an in depth study of its applications as well as

examples and exercises to support the material The book is intended as a reference tool for any student professional researcher or mathematician studying in a field where functional equations can be applied It can also be used as a primary text in a classroom setting or for self study Finally it could be an inspiring entrance into an active area of mathematical exploration for engineers and other scientists who would benefit from this careful rigorous exposition

Functional Equations and Inequalities Themistocles RASSIAS, 2012-12-06 This volume provides an extensive study of some of the most important topics of current interest in functional equations and inequalities Subjects dealt with include a Pythagorean functional equation a functional definition of trigonometric functions the functional equation of the square root spiral a conditional Cauchy functional equation an iterative functional equation the Hille type functional equation the polynomial like iterative functional equation distribution of zeros and inequalities for zeros of algebraic polynomials a qualitative study of Lobachevsky's complex functional equation functional inequalities in special classes of functions replicativity and function spaces normal distributions some difference equations finite sums decompositions of functions harmonic functions set valued quasiconvex functions the problems of expressibility in some extensions of free groups Aleksandrov problem and mappings which preserve distances Ulam's problem stability of some functional equation for generalized trigonometric functions Hyers Ulam stability of Hossz's equation superstability of a functional equation and some demand functions in a duopoly market with advertising Audience This book will be of interest to mathematicians and graduate students whose work involves real functions functions of a complex variable functional analysis integral transforms and operational calculus

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ON THE STABILITY OF A FUNCTIONAL EQUATION FOR GENERALIZED TRIGONOMETRIC FUNCTIONS ROMAN BADORA Instytut Matematyki Uniwersytet Sileski ul Bankowa

14 PL 40 007 Katowice Poland e mail robadora gate math us edu pl Abstract In the present paper the stability result concerning a functional equation for generalized trigonometric functions is presented Z *Handbook of Functional Equations* Themistocles M. Rassias, 2014-11-21 This handbook consists of seventeen chapters written by eminent scientists from the international mathematical community who present important research works in the field of mathematical analysis and related subjects particularly in the Ulam stability theory of functional equations The book provides an insight into a large domain of research with emphasis to the discussion of several theories methods and problems in approximation theory analytic inequalities functional analysis computational algebra and applications The notion of stability of functional equations has its origins with S M Ulam who posed the fundamental problem for approximate homomorphisms in 1940 and with D H Hyers Th M Rassias who provided the first significant solutions for additive and linear mappings in 1941 and 1978 respectively During the last decade the notion of stability of functional equations has evolved into a very active domain of mathematical research with several applications of interdisciplinary nature The chapters of this handbook focus mainly on both old and recent developments on the equation of homomorphism for square symmetric groupoids the linear and polynomial functional equations in a single variable the Drygas functional equation on amenable semigroups monomial functional equation the Cauchy Jensen type mappings differential equations and differential operators operational equations and inclusions generalized module left higher derivations selections of set valued mappings D Alembert s functional equation characterizations of information measures functional equations in restricted domains as well as generalized functional stability and fixed point theory **Stability of Functional Equations in Several Variables** D.H. Hyers, G. Isac, Themistocles Rassias, 2012-12-06 The notion of stability of functional equations of several variables in the sense used here had its origins more than half a century ago when S Ulam posed the fundamental problem and Donald H Hyers gave the first significant partial solution in 1941 The subject has been revised and developed by an increasing number of mathematicians particularly during the last two decades Three survey articles have been written on the subject by D H Hyers 1983 D H Hyers and Th M Rassias 1992 and most recently by G L Forti 1995 None of these works included proofs of the results which were discussed Furthermore it should be mentioned that wider interest in this subject area has increased substantially over the last years yet the presentation of research has been confined mainly to journal articles The time seems ripe for a comprehensive introduction to this subject which is the purpose of the present work This book is the first to cover the classical results along with current research in the subject An attempt has been made to present the material in an integrated and self contained fashion In addition to the main topic of the stability of certain functional equations some other related problems are discussed including the stability of the convex functional inequality and the stability of minimum points A sad note During the final stages of the manuscript our beloved co author and friend Professor Donald H Hyers passed away Ulam Stability of Operators Janusz Brzdek, Dorian Popa, Ioan Rasa, Bing Xu, 2018-01-10 Ulam Stability of Operators

presents a modern unified and systematic approach to the field Focusing on the stability of functional equations across single variable difference equations differential equations and integral equations the book collects compares unifies complements generalizes and updates key results Whenever suitable open problems are stated in corresponding areas The book is of interest to researchers in operator theory difference and functional equations and inequalities differential and integral equations Allows readers to establish expert knowledge without extensive study of other books Presents complex math in simple and clear language Compares generalizes and complements key findings Provides numerous open problems

Functional Equations, Inequalities and Applications Themistocles RASSIAS,2013-03-09 Functional Equations Inequalities and Applications provides an extensive study of several important equations and inequalities useful in a number of problems in mathematical analysis Subjects dealt with include the generalized Cauchy functional equation the Ulam stability theory in the geometry of partial differential equations stability of a quadratic functional equation in Banach modules functional equations and mean value theorems isometric mappings functional inequalities of iterative type related to a Cauchy functional equation the median principle for inequalities and applications Hadamard and Dragomir Agarwal inequalities the Euler formulae and convex functions and approximate algebra homomorphisms Also included are applications to some problems of pure and applied mathematics This book will be of particular interest to mathematicians and graduate students whose work involves functional equations inequalities and applications

Advances in Natural Computation, Fuzzy Systems and Knowledge Discovery Hongying Meng,Tao Lei,Maozhen Li,Kenli Li,Ning Xiong,Lipo Wang,2021-06-26 This book consists of papers on the recent progresses in the state of the art in natural computation fuzzy systems and knowledge discovery The book is useful for researchers including professors graduate students as well as R D staff in the industry with a general interest in natural computation fuzzy systems and knowledge discovery The work printed in this book was presented at the 2020 16th International Conference on Natural Computation Fuzzy Systems and Knowledge Discovery ICNC FSKD 2020 held in Xi an China from 19 to 21 December 2020 All papers were rigorously peer reviewed by experts in the areas

Mathematical Analysis and Computing R. N. Mohapatra,S. Yuges, G. Kalpana,C.

Kalaivani,2021-05-05 This book is a collection of selected papers presented at the International Conference on Mathematical Analysis and Computing ICMAC 2019 held at Sri Sivasubramaniya Nadar College of Engineering Chennai India from 23 24 December 2019 Having found its applications in game theory economics and operations research mathematical analysis plays an important role in analyzing models of physical systems and provides a sound logical base for problems stated in a qualitative manner This book aims at disseminating recent advances in areas of mathematical analysis soft computing approximation and optimization through original research articles and expository survey papers This book will be of value to research scholars professors and industrialists working in these areas

Advanced Topics in Mathematical Analysis Michael Ruzhansky,Hemen Dutta,2019-01-08 Advanced Topics in Mathematical Analysis is aimed at researchers graduate students

to the Hyers Ulam and Hyers Ulam Rassias stability problems for sets of functional equations and inequalities has led to an outpouring of recent research This volume dedicated to S M Ulam presents the most recent results on the solution to Ulam stability problems for various classes of functional equations and inequalities Comprised of invited contributions from notable researchers and experts this volume presents several important types of functional equations and inequalities and their applications to problems in mathematical analysis geometry physics and applied mathematics Functional Equations in Mathematical Analysis is intended for researchers and students in mathematics physics and other computational and applied sciences

Special Functions and Analysis of Differential Equations Praveen Agarwal, Ravi P Agarwal, Michael Ruzhansky, 2020-09-08 Differential Equations are very important tools in Mathematical Analysis They are widely found in mathematics itself and in its applications to statistics computing electrical circuit analysis dynamical systems economics biology and so on Recently there has been an increasing interest in and widely extended use of differential equations and systems of fractional order that is of arbitrary order as better models of phenomena in various physics engineering automatization biology and biomedicine chemistry earth science economics nature and so on Now new unified presentation and extensive development of special functions associated with fractional calculus are necessary tools being related to the theory of differentiation and integration of arbitrary order i e fractional calculus and to the fractional order or multi order differential and integral equations This book provides learners with the opportunity to develop an understanding of advancements of special functions and the skills needed to apply advanced mathematical techniques to solve complex differential equations and Partial Differential Equations PDEs Subject matters should be strongly related to special functions involving mathematical analysis and its numerous applications The main objective of this book is to highlight the importance of fundamental results and techniques of the theory of complex analysis for differential equations and PDEs and emphasizes articles devoted to the mathematical treatment of questions arising in physics chemistry biology and engineering particularly those that stress analytical aspects and novel problems and their solutions Specific topics include but are not limited to Partial differential equations Least squares on first order system Sequence and series in functional analysis Special functions related to fractional non integer order control systems and equations Various special functions related to generalized fractional calculus Operational method in fractional calculus Functional analysis and operator theory Mathematical physics Applications of numerical analysis and applied mathematics Computational mathematics Mathematical modeling This book provides the recent developments in special functions and differential equations and publishes high quality peer reviewed book chapters in the area of nonlinear analysis ordinary differential equations partial differential equations and related applications

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