

ENCYCLOPEDIA OF MATHEMATICS AND ITS APPLICATIONS

# ITERATIVE FUNCTIONAL EQUATIONS

MAREK KUCZMA, BOGDAN CHOCZEWSKI  
and ROMAN GER



# Iterative Functional Equations

**Marek Kuczma, Bogdan  
Choczewski, Roman Ger**



## **Iterative Functional Equations:**

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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

**Linear Iterative Functional Equations with Random-valued Functions** Janusz Marian Morawiec, 2023

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inspiring entrance into an active area of mathematical exploration for engineers and other scientists who would benefit from this careful rigorous exposition *Analytic Solutions Of Functional Equations* Sui Sun Cheng, Wenrong Li, 2008-03-14 This book presents a self contained and unified introduction to the properties of analytic functions Based on recent research results it provides many examples of functional equations to show how analytic solutions can be found Unlike in other books analytic functions are treated here as those generated by sequences with positive radii of convergence By developing operational means for handling sequences functional equations can then be transformed into recurrence relations or difference equations in a straightforward manner Their solutions can also be found either by qualitative means or by computation The subsequent formal power series function can then be asserted as a true solution once convergence is established by various convergence tests and majorization techniques Functional equations in this book may also be functional differential equations or iterative equations which are different from the differential equations studied in standard textbooks since composition of known or unknown functions are involved Functional Equations: History, Applications and Theory J. Aczél, 2012-12-06 Approach your problems from It isn't that they can't see the right end and begin with the solution It is that they the answers Then one day can't see the problem perhaps you will find the G K Chesterton The Scandal of final question Father Brown The Point of a Pin The Hermit Clad n Crane Feathers in R van Gulik's The Chinese Haze Murders Growing specialization and diversification have brought a host of monographs and textbooks on increasingly specialized topics However the tree of knowledge of mathematics and related fields does not grow only by putting forth new branches It also happens quite often in fact that branches which were thought to be completely disparate are suddenly seen to be related Further the kind and level of sophistication of mathematics applied in various sciences has changed drastically in recent years measure theory is used non trivially n regional and theoretical economics algebraic geometry interacts with physics the Minkowsky lemma coding theory and the structure of water meet one another in packing and covering theory quantum fields crystal defects and mathematical programming profit from homotopy theory Lie algebras are relevant to filtering and prediction and electrical engineering can use Stein spaces And in addition to this there are such new emerging subdisciplines as completely integrable systems chaos synergetics and large scale order which are almost impossible to fit into the existing classification schemes They draw upon widely different sections of mathematics **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

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Debrecen in Noszvaj Hungary The report about this meeting can be found in Aequationes Math 61 2001 281 320

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Functional Equations and Modelling in Science and Engineering Enrique Castillo, 1992-05-27 Provides engineers and applied scientists with some selected results of functional equations and their applications with the intention of changing the way they think about mathematical modelling Many of the proofs are simplified or omitted so as not to bore or confuse engineers Functional equati

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