

ENCYCLOPEDIA OF MATHEMATICS AND ITS APPLICATIONS

ITERATIVE FUNCTIONAL EQUATIONS

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Iterative Functional Equations

Zoltan Daroczy, Zsolt Páles



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 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 *Developments in Functional Equations and
 Related Topics* Janusz Brzdęk, Krzysztof Ciepliński, Themistocles M. Rassias, 2017-08-14 This book presents current research
 on Ulam stability for functional equations and inequalities Contributions from renowned scientists emphasize fundamental
 and new results methods and techniques Detailed examples are given to theories to further understanding at the graduate
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 problems in mathematical analysis combinatorics biology information theory statistics physics the behavioral sciences and
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 other basic tools in analysis Each chapter examines a particular family of equations and gives an in depth study of its
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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

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Handbook of Functional Equations

Themistocles M. Rassias, 2014-11-18 As Richard Bellman has so elegantly stated at the Second International Conference on General Inequalities Oberwolfach 1978 There are three reasons for the study of inequalities practical theoretical and aesthetic On the aesthetic aspects he said As has been pointed out beauty is in the eye of the beholder However it is generally agreed that certain pieces of music art or mathematics are beautiful There is an elegance to inequalities that makes them very attractive The content of the Handbook focuses mainly on both old and recent developments on approximate homomorphisms on a relation between the Hardy Hilbert and the Gabriel inequality generalized Hardy Hilbert type inequalities on multiple weighted Orlicz spaces half discrete Hilbert type inequalities on affine mappings on contractive operators on multiplicative Ostrowski and trapezoid inequalities Ostrowski type inequalities for the Riemann Stieltjes integral means and related functional inequalities Weighted Gini means controlled additive relations Szasz Mirakyan operators extremal problems in polynomials and entire functions applications of functional equations to Dirichlet problem for doubly connected domains nonlinear elliptic problems depending on parameters on strongly convex functions as well as applications to some new algorithms for solving general equilibrium problems inequalities for the Fisher's information measures financial networks mathematical models of mechanical fields in media with inclusions and holes

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Results and Advances Zoltan Daroczy, Zsolt Páles, 2013-06-29 The theory of functional equations has been developed in a rapid and productive way in the second half of the Twentieth Century First of all this is due to the fact that the mathematical applications raised the investigations of newer and newer types of functional equations At the same time the self development of this theory was also very fruitful This can be followed in many monographs that treat and discuss the various methods and approaches These developments were also essentially influenced by a number of journals for instance by the *Publicationes Mathematicae Debrecen* founded in 1953 and by the *Aequationes Mathematicae* founded in 1968 because these journals published papers from the field of functional equations readily and frequently The latter journal also publishes the yearly report of the International Symposia on Functional Equations and a comprehensive bibliography of the most recent papers At the same time there are periodically and traditionally organized conferences in Poland and in Hungary devoted to functional equations and inequalities In 2000 the 38th International Symposium on Functional Equations was organized by

the Institute of Mathematics and Informatics of the University of Debrecen in Noszvaj Hungary The report about this meeting can be found in Aequationes Math 61 2001 281 320 **Functional Equations and How to Solve Them** Christopher G. Small, 2007-04-03 Over the years a number of books have been written on the theory of functional equations However very little has been published which helps readers to solve functional equations in mathematics competitions and mathematical problem solving This book fills that gap The student who encounters a functional equation on a mathematics contest will need to investigate solutions to the equation by finding all solutions or by showing that all solutions have a particular property The emphasis here will be on the development of those tools which are most useful in assigning a family of solutions to each functional equation in explicit form At the end of each chapter readers will find a list of problems associated with the material in that chapter The problems vary greatly with the easiest problems being accessible to any high school student who has read the chapter carefully The most difficult problems will be a reasonable challenge to advanced students studying for the International Mathematical Olympiad at the high school level or the William Lowell Putnam Competition for university undergraduates The book ends with an appendix containing topics that provide a springboard for further investigation of the concepts of limits infinite series and continuity *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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