Introduction to Functional Equations

Theory and problem-solving strategies for mathematical competitions and beyond

Costas Efthimiou

Introduction To Functional Equations Theory And Problem Solving Strategies For Mathematical Competitions And Beyond Msri Mathematical Circles Library

David Leigh-Lancaster

Introduction To Functional Equations Theory And Problem Solving Strategies For Mathematical Competitions And Beyond Msri Mathematical Circles Library:

Introduction to Functional Equations Costas Efthimiou,2011-10-13 Functions and their properties have been part of the rigorous precollege curriculum for decades And functional equations have been a favorite topic of the leading national and international mathematical competitions Yet the subject has not received equal attention by authors at an introductory level The majority of the books on the topic remain unreachable to the curious and intelligent precollege student The present book is an attempt to eliminate this disparity The book opens with a review chapter on functions which collects the relevant foundational information on functions plus some material potentially new to the reader The next chapter presents a working definition of functional equations and explains the difficulties in trying to systematize the theory With each new chapter the author presents methods for the solution of a particular group of equations Each chapter is complemented with many solved examples the majority of which are taken from mathematical competitions and professional journals The book ends with a chapter of unsolved problems and some other auxiliary material The book is an invaluable resource for precollege and college students who want to deepen their knowledge of functions and their properties for teachers and instructors who wish to enrich their curricula and for any lover of mathematical problem solving techniques In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people their parents and teachers and the mathematics profession   **Computational Physics - A Practical Introduction to Computational Physics and Scientific Computing (using C++), Vol. II** Konstantinos Anagnostopoulos,2016-12-06 This book is an introduction to the computational methods used in physics but also in other scientific fields It is addressed to an audience that has already been exposed to the introductory level of college physics usually taught during the first two years of an undergraduate program in science and engineering It assumes no prior knowledge of numerical analysis programming or computers and teaches whatever is necessary for the solution of the problems addressed in the text It can be used as a textbook in introductory computational physics or scientific computing classes The book starts with very simple problems in particle motion and ends with an in depth discussion of advanced techniques used in Monte Carlo simulations in statistical mechanics The level of instruction rises slowly while discussing problems like the diffusion equation electrostatics on the plane quantum mechanics and random walks All the material can be taught in two semesters but a selection of topics can form the material of a one semester course The book aims to provide the students with the background and the experience needed in order to advance to high performance computing projects in science and engineering It puts emphasis on hands on programming of numerical code but also on the production analysis and interpretation of data But it also tries to keep the students motivated by considering interesting applications in physics like chaos quantum mechanics special relativity and the physics of phase

transitions There is a C and a Fortran edition for the core programming Data analysis is performed using the powerful tools of the GNU Linux environment All the necessary software is open source and freely available The book and the accompanying software are given under a Creative Commons License GNU public License as a service to the community It can be used freely as a whole or any part of it in any form by anyone There is no official distribution of hard copies but you can use the printing service of your preference in order produce any number of copies you need for you and or your students For the lazy ones a very nice and cheap paperback can be purchaced from lulu com amazon com and conventional bookstores The ebook can be read in most electronic devices like your PC tablet or favorite ebook reader and it is freely available from the book s website *Computational Physics - A Practical Introduction to Computational Physics and Scientific Computing (using C++), Vol. I* Konstantinos Anagnostopoulos,2016-12-06 This book is an introduction to the computational methods used in physics and other related scientific fields It is addressed to an audience that has already been exposed to the introductory level of college physics usually taught during the first two years of an undergraduate program in science and engineering It assumes no prior knowledge of numerical analysis programming or computers and teaches whatever is necessary for the solution of the problems addressed in the text C is used for programming the core programs and data analysis is performed using the powerful tools of the GNU Linux environment All the necessary software is open source and freely available The book starts with very simple problems in particle motion and ends with an in depth discussion of advanced techniques used in Monte Carlo simulations in statistical mechanics The level of instruction rises slowly while discussing problems like the diffusion equation electrostatics on the plane quantum mechanics and random walks **Mathematics of Continuous and Discrete Dynamical Systems** Abba B. Gumel,2014-06-18 This volume contains the proceedings of the AMS Special Session on Nonstandard Finite Difference Discretizations and Nonlinear Oscillations in honor of Ronald Mickens s 70th birthday held January 9 10 2013 in San Diego CA Included are papers on design and analysis of discrete time and continuous time dynamical systems arising in the natural and engineering sciences in particular the design of robust nonstandard finite difference methods for solving continuous time ordinary and partial differential equation models the analytical and numerical study of models that undergo nonlinear oscillations as well as the design of deterministic and stochastic models for epidemiological and ecological processes Some of the specific topics covered in the book include the analysis of deterministic and stochastic SIR type models the assessment of cost effectiveness of vaccination problems finite difference methods for oscillatory dynamical systems including the Schr dinger equation and Brusselator system the design of exact and elementary stable finite difference methods the study of a two patch model with Allee effects and disease modified fitness the study of the delay differential equation model with application to circadian rhythm and the application of some special functions in the solutions of some problems arising in the natural and engineering sciences A notable feature of the book is the collection of some relevant open problems intended to help guide the direction of future research in the area **Statistical Methods**

for Climate Scientists Timothy DelSole,Michael Tippett,2022-02-24 A comprehensive introduction to the most commonly used statistical methods relevant in atmospheric oceanic and climate sciences Each method is described step by step using plain language and illustrated with concrete examples with relevant statistical and scientific concepts explained as needed Particular attention is paid to nuances and pitfalls with sufficient detail to enable the reader to write relevant code Topics covered include hypothesis testing time series analysis linear regression data assimilation extreme value analysis Principal Component Analysis Canonical Correlation Analysis Predictable Component Analysis and Covariance Discriminant Analysis The specific statistical challenges that arise in climate applications are also discussed including model selection problems associated with Canonical Correlation Analysis Predictable Component Analysis and Covariance Discriminant Analysis Requiring no previous background in statistics this is a highly accessible textbook and reference for students and early career researchers in the climate sciences   **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   *Topics in Functional Equations* Titu Andreescu,Iurie Boreico,Nikolai Nikolov,Oleg Mushkarov,2020-01-15   Introduction to Functional Equations Prasanna K. Sahoo,Palaniappan Kannappan,2011-02-08 Introduction to Functional Equations grew out of a set of class notes from an introductory graduate level course at the University of Louisville This introductory text communicates an elementary exposition of valued functional equations where the unknown functions take on real or complex values In order to make the presentation as manageable as p   Functional Equations: History, Applications and Theory J. Aczél,2001-11-30 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 mathe matics applied in various sciences has changed drastically in recent years measure theory is used non trivially n re gional 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 pro gramming profit from homotopy theory Lie algebras are rele vant to filtering and prediction and electrical en ineering 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 existinf classifi ation schemes They draw upon widely different sections of mathematics *Short Course on Functional Equations* J. Aczél,1987 Review s this book is not only an impressive example how mathematics can be applied to problems arising in the social and behavioral sciences but also on outstanding course on functional equations This course is short as the title says but leads astonishingly far since the material is presented very economically I am convinced that every reader will enjoy this book greatly Zeischrift f r Operations Research June 1989 **Functional Equations in Mathematical Olympiads (2017 - 2018)** Amir Hossein Parvardi,2018-05-29 Functional equations which are a branch of algebraic problems used in mathematical competitions appear in recent olympiads very frequently The current book is the first volume in a series of books on collections of solved problems in functional equations This volume contains 175 problems on the subject including those used in latest mathematical olympiads 2017 2018 around the world The basic concepts of functional equations and techniques of problem solving have been briefly discussed in the preamble of the book **Functional Equations in Mathematical Analysis** Themistocles M. Rassias,Janusz Brzdek,2011-09-18 The stability problem for approximate homomorphisms or the Ulam stability problem was posed by S M Ulam in the year 1941 The solution of this problem for various classes of equations is an expanding area of research In particular the pursuit of solutions to the Hyers Ulam and Hyers Ulam Rassias stability problems for sets of functional equations and ineqalities 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 On Applications and Theory of Functional Equations J. Aczél,2014-05-12 On Applications and Theory of Functional Equations focuses on the principles and advancement of numerical approaches used in functional equations The publication first offers information on the history of functional equations noting that the research on functional equations originated in problems related to applied mathematics The text

also highlights the influence of J d Alembert S D Poisson E Picard and A L Cauchy in promoting the processes of numerical analyses involving functional equations The role of vectors in solving functional equations is also noted The book ponders on the international Fifth Annual Meeting on Functional Equations held in Waterloo Ontario Canada on April 24 30 1967 The meeting gathered participants from America Asia Australia and Europe One of the topics presented at the meeting focuses on the survey of materials dealing with the progress of approaches in the processes and methodologies involved in solving problems dealing with functional equations The influence works and contributions of A L Cauchy G Darboux and G S Young to the field are also underscored The publication is a valuable reference for readers interested in functional equations

   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   **On Functions and Functional Equations** Smital,2020-08-26 On Functions and Functional Equations introduces the main topics in iteration theory and the theory of functional equations with emphasis on applications in the fields of mathematics physics biology chemistry and electronics and mechanical engineering The book contains many classical results as well as important more recent results It also includes numerous exercise and some problems that have yet to be resolved The book is accessible to readers having a secondary level mathematical education   **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   *Functional Equations* David Leigh-Lancaster,2006-01-01 Functional equations provides mathematics teachers with an introduction to elementary aspects of functional equations These equations are linked to function in various topics of the senior secondary mathematics curriculum including transformations identities difference equations and mathematical modelling

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   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 level for students in mathematics physics and engineering Key topics covered in this book include Quasi means Approximate isometries Functional equations in hypergroups Stability of functional equations Fischer Musz ly equation Haar meager sets and Haar null sets Dynamical systems Functional equations in probability theory Stochastic convex ordering Dhombres functional equation Nonstandard analysis and Ulam stability This book is dedicated in memory of Stani saw Marcin Ulam who posed the fundamental problem concerning approximate homomorphisms of groups in 1940 which has provided the stimulus for studies in the stability of functional equations and inequalities   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 entr e into an active area of mathematical exploration for engineers and other scientists who would benefit from this careful rigorous exposition

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