



The development of approximation theory and some proposed applications

Malik Saad Al-Muhja ^{1,2 *}, Masnita Misiran ¹, Zurni Omar ¹

¹ Department of Mathematics and statistics, School of Quantitative Sciences, College of Arts and Sciences, Universiti Utara Malaysia, 06010 Sintok, Kedah, Malaysia

² Department of Mathematics and Computer Application, College of Sciences, University of Al-Muthanna, Samarra 66001, Iraq

*Corresponding author E-mail: malik@uu.edu.my

Abstract

In this survey article, we review the early history of approximation theorem that was introduced by Weierstrass in the late 18th century, together with its extension works. We also propose some applicable scenarios that best fit this theory. Such applications include the kinetics conditions related to manual and automatic vehicle transmission by using convex function, and the theory of calculating deviations of eye's layers (normal vision, hyperopia and myopia) in some patients by using monotone function.

Keywords: Approximation Theory; Chebyshev's Polynomial; Weierstrass' Theorem; 2010 MSC: 42A10; 42A15; 41A52; 41A86.

1. Scope of the survey

In this survey, we present a historical overview of the approximation theory and its development over time. Then, we provide some open problems of approximation theory in mechanical engineering and ophthalmology, through examples in gear transmission and medical optics. These are pragmatic applications, given the centrality of vehicular mobility and human sight to improve the quality of life.

2. Review of the development of approximation theory

We begin by giving a broad perspective of approximation theory. It was created to provide value for the methods of infinite limitisation qualitatively and quantitatively. It was founded based on mathematical model provided by mapping, function, number and set, which contributed to understanding the problems of quadrature in approximation theory. The aim of approximation theory is to introduce and provide computation in theoretical mathematics. Such computational advantages is able to number operations including division, multiplication, inversion of a matrix, best polynomials and solution for equations [1]. In fact, if the word "approximation theory" is used, this term refer to more divisions in mathematical analysis, which was developed as a result of the works by Chebyshev (1853), Weierstrass (1885), Lebesgue (1898), Bernstein (1912, 1937), Nikol'skij (1945), Kolmogorov (1985) and followed by many of their followers such as [2], and [3]. The direction of approximation theory (e.g. functions by trigonometric, algebraic polynomials, splines, rational functions and estimates approximation on smooth functions), is not limited to technical sciences only. It is also relatable to practical human activities, such as the theory of mechanisms in steam engines. The applications highlighted by Chebyshev's works are notable examples of this practical application.

In the early work of approximation theory, the number II that was developed by Euler (1747) was known as the period of approximation theory. By diverting their attention to mathematical analysis, Euler (1747), Bernoulli (1694), Kepler (1615), Newton (1665) and Lagrange (1898) developed methods to approximate numbers, operators and functions in the form of solutions for equations. However, Gauss (1886) popularising approximation theory by developing methods for optimal computation of integrals and solutions of equations. He also developed an approximation theory in the metric of the quadratic function. Later, Chebyshev (1853) developed methods for optimal approximations of abundant concrete functions [4].

In the era of modern technology however, many of his published works only gain historical interest. Nonetheless, it is important to note that the significance of Chebyshev's work had turned out to have wider pragmatic application. Such extension enabled a new direction in functional analysis, whereby research topics expanded towards algebraic polynomial and best approximation, to name just two area of interest. The complexity of functions approximation by means of polynomials are the core of the first stage of Chebyshev's work on approximation theory (see [5] and [6]). Gradually, this practical direction (better known as the second stage in approximation theory) describes the purely theoretical problem for the drawn properties of functions by the usage of their approximative characteristics. These include functions such as the Fourier and Taylor coefficients, Padé approximation and best polynomial approximation.

The third stage in the development of approximation theory focused on approximative possibilities of the algebraic and trigonometric polynomials and rational fractions. The works in this third phase include Kolmogorov [3] such that a new viewpoint on classical

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Approximation Theory VIII - Volume 1: Approximation And Interpolation Charles K Chui, Larry L Schumaker, 1995-11-07 This is the collection of the refereed and edited papers presented at the 8th Texas International Conference on Approximation Theory It is interdisciplinary in nature and consists of two volumes The central theme of Vol I is the core of approximation theory It includes such important areas as qualitative approximations interpolation theory rational approximations radial basis functions and splines The second volume focuses on topics related to wavelet analysis including multiresolution and multi level approximation subdivision schemes in CAGD and applications

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Computational Learning Theory Paul Fischer, Hans U. Simon, 2003-07-31 This book constitutes the refereed proceedings of the 4th European Conference on Computational Learning Theory EuroCOLT 99 held in Nordkirchen Germany in March 1999 The 21 revised full papers presented were selected from a total of 35 submissions also included are two invited contributions The book is divided in topical sections on learning from queries and counterexamples reinforcement learning online learning and expert advice teaching and learning inductive inference and statistical theory of learning and pattern recognition

Hypergeometric Orthogonal Polynomials and Their q-Analogues

Roelof Koekoek, Peter A. Lesky, René F. Swarttouw, 2010-03-18 The present book is about the Askey scheme and the q Askey scheme which are graphically displayed right before chapter 9 and chapter 14 respectively The families of orthogonal polynomials in these two schemes generalize the classical orthogonal polynomials Jacobi Laguerre and Hermite polynomials and they have properties similar to them In fact they have properties so similar that I am inclined following Andrews Askey 34 to call all families in the q Askey scheme classical orthogonal polynomials and to call the Jacobi Laguerre and Hermite polynomials very classical orthogonal polynomials These very classical orthogonal polynomials are good friends of mine since most the beginning of my mathematical career When I was a fresh PhD student at the Mathematical Centre now CWI in Amsterdam Dick Askey spent a sabbatical there during the academic year 1969 1970 He lectured to us in a very stimulating way about hypergeometric functions and classical orthogonal polynomials Even better he gave us problems to solve which might be worth a PhD He also pointed out to us that there was more than just Jacobi Laguerre and Hermite polynomials for instance Hahn polynomials and that it was one of the merits of the Higher Transcendental Functions Bateman project that it included some newer stuff like the Hahn polynomials see 198 10 23

Matrix Theory Mykhaylo Andriychuk, 2023 Matrix Theory Classics and Advances examines matrix theory and its application in solving a series of problems related to natural phenomena and applied science It consists of eleven chapters divided into two sections Section 1 Theory and Progress discusses the classical problems of matrix theory and its contribution to different fields of pure mathematics Section 2 Applications contains the research related to the application of matrix theory in applied science

Recent Developments in Optimization Theory and Nonlinear Analysis Yair Censor, Simeon Reich, 1997 This volume contains the refereed proceedings of the special session on Optimization and Nonlinear Analysis held at the Joint American Mathematical Society Israel Mathematical Union Meeting which took place at the Hebrew University of Jerusalem in May 1995 Most of the papers in this book originated from the lectures delivered at this special session In addition some participants who didn't present lectures and invited speakers who were unable to attend contributed their work The fields of optimization theory and nonlinear analysis continue to be very active This book presents not only the wide spectrum and diversity of the results but also their manifold connections to other areas such as differential equations functional analysis operator theory calculus of variations numerical analysis and mathematical programming In reading this book one encounters papers that deal for example with convex quasiconvex and generalized convex functions fixed and periodic points fractional linear transformations moduli of convexity monotone operators Morse lemmas Navier Stokes equations nonexpansive maps nonsmooth analysis numerical stability products of projections steepest descent the Leray Schauder degree the turnpike property and variational inequalities

Generalized Trigonometric and Hyperbolic Functions Ronald E. Mickens, 2019-01-15 Generalized Trigonometric and Hyperbolic Functions highlights to those in the area of generalized trigonometric functions an alternative path to the creation and analysis of these classes of functions Previous efforts have started with integral representations for

the inverse generalized sine functions followed by the construction of the associated cosine functions and from this various properties of the generalized trigonometric functions are derived However the results contained in this book are based on the application of both geometrical phase space and dynamical systems methodologies Features Clear direct construction of a new set of generalized trigonometric and hyperbolic functions Presentation of why $x^2 + y^2 = 1$ and related expressions may be interpreted in three distinct ways All the constructions proofs and derivations can be readily followed and understood by students researchers and professionals in the natural and mathematical sciences

Frontiers of Fractal Analysis Santo Banerjee,A. Gowrisankar,2022-07-07 The history of describing natural objects using geometry is as old as the advent of science itself in which traditional shapes are the basis of our intuitive understanding of geometry However nature is not restricted to such Euclidean objects which are only characterized typically by integer dimensions Hence the conventional geometric approach cannot meet the requirements of solving or analysing nonlinear problems which are related with natural phenomena therefore the fractal theory has been born which aims to understand complexity and provide an innovative way to recognize irregularity and complex systems Although the concepts of fractal geometry have found wide applications in many forefront areas of science engineering and societal issues they also have interesting implications of a more practical nature for the older classical areas of science Since its discovery there has been a surge of research activities in using this powerful concept in almost every branch of scientific disciplines to gain deep insights into many unresolved problems This book includes eight chapters which focus on gathering cutting edge research and proposing application of fractals features in both traditional scientific disciplines and in applied fields

Solutions of Fixed Point Problems with Computational Errors Alexander J. Zaslavski,2024-03-19 The book is devoted to the study of approximate solutions of fixed point problems in the presence of computational errors It begins with a study of approximate solutions of star shaped feasibility problems in the presence of perturbations The goal is to show the convergence of algorithms which are known as important tools for solving convex feasibility problems and common fixed point problems The text also presents studies of algorithms based on unions of nonexpansive maps inconsistent convex feasibility problems and split common fixed point problems A number of algorithms are considered for solving convex feasibility problems and common fixed point problems The book will be of interest for researchers and engineers working in optimization numerical analysis and fixed point theory It also can be useful in preparation courses for graduate students The main feature of the book which appeals specifically to this audience is the study of the influence of computational errorsfor several important algorithms used for nonconvex feasibility problems

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Table of Contents Journal Of Approximation Theory And Applications

1. Understanding the eBook Journal Of Approximation Theory And Applications
 - The Rise of Digital Reading Journal Of Approximation Theory And Applications
 - Advantages of eBooks Over Traditional Books
2. Identifying Journal Of Approximation Theory And Applications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Journal Of Approximation Theory And Applications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Journal Of Approximation Theory And Applications
 - Personalized Recommendations
 - Journal Of Approximation Theory And Applications User Reviews and Ratings
 - Journal Of Approximation Theory And Applications and Bestseller Lists
5. Accessing Journal Of Approximation Theory And Applications Free and Paid eBooks
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 - Journal Of Approximation Theory And Applications Compatibility with Devices
 - Journal Of Approximation Theory And Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Journal Of Approximation Theory And Applications
 - Highlighting and Note-Taking Journal Of Approximation Theory And Applications
 - Interactive Elements Journal Of Approximation Theory And Applications
8. Staying Engaged with Journal Of Approximation Theory And Applications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Journal Of Approximation Theory And Applications
9. Balancing eBooks and Physical Books Journal Of Approximation Theory And Applications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Journal Of Approximation Theory And Applications
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Journal Of Approximation Theory And Applications
 - Setting Reading Goals Journal Of Approximation Theory And Applications
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Journal Of Approximation Theory And Applications
 - Fact-Checking eBook Content of Journal Of Approximation Theory And Applications
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
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 - Integration of Multimedia Elements

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