



The development of approximation theory and some proposed applications

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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; 41A66.

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 limitation 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 (1952, 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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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

Function Spaces, Theory and Applications Ilia Binder, Damir Kinzbulatov, Javad Mashreghi, 2023-12-11 The focus program on Analytic Function Spaces and their Applications took place at Fields Institute from July 1st to December 31st 2021 Hilbert spaces of analytic functions form one of the pillars of complex analysis These spaces have a rich structure and for more than a century have been studied by many prominent mathematicians They also have several essential applications in other fields of mathematics and engineering e g robust control engineering signal and image processing and theory of communication The most important Hilbert space of analytic functions is the Hardy class H^2 However its close cousins e g the Bergman space A_2 the Dirichlet space D the model subspaces K_t and the de Branges-Rovnyak spaces H_b have also been the center of attention in the past two decades Studying the Hilbert spaces of analytic functions and the operators acting on them as well as their applications in other parts of mathematics or engineering were the main subjects of this program During the program the world leading experts on function spaces gathered and discussed the new achievements and future venues of research on analytic function spaces their operators and their applications in other domains With more than 250 hours of lectures by prominent mathematicians a wide variety of topics were covered More explicitly there were mini courses and workshops on Hardy Spaces Dirichlet Spaces Bergman Spaces Model Spaces Interpolation and Sampling Riesz Bases Frames and Signal Processing Bounded Mean Oscillation de Branges-Rovnyak Spaces Operators on Function Spaces Truncated Toeplitz Operators Blaschke Products and Inner Functions Discrete and Continuous Semigroups of Composition Operators The Corona Problem Non commutative Function Theory Drury-Arveson Space and Convergence of Scattering Data and Non linear Fourier Transform At the end of each week there was a high profile colloquium talk on the current topic The program also contained two semester long advanced courses on Schramm-Loewner Evolution and Lattice Models and Reproducing Kernel Hilbert Space of Analytic Functions The current volume features a more detailed version of some of the talks presented during the program

Approximation Theory and Applications Sergei Aliukov, 2025-02-04 Approximation Theory and Applications Piecewise Linear and Generalized Functions presents the main provisions of approximation theory and considers existing and new methods for approximating piecewise linear and generalized functions widely used to solve problems related to mathematical modeling of systems processes and phenomena in fields ranging from engineering to economics The widespread use of piecewise linear and generalized

functions is explained by the simplicity of their structure. However, challenges often arise when constructing solutions over the entire domain of these functions, requiring the use of special mathematical methods to put theory into practice. This book first offers a first full foundation in approximation theory as it relates to piecewise linear and generalized functions, followed by staged methods to resolve common problems in practice with applications examined across structural mechanics, medicine, quantum theory, signal theory, semiconductor theory, mechanical engineering, heat engineering, and other fields. Later chapters consider numerical verification of approximation methods and approximation theory as the basis for new macroeconomic theory with impulse and jump characteristics. Each chapter includes questions for review and sample problems accompanied by a separate Solutions Manual hosted for instructor access. Offers clear comprehensive coverage of approximation theory and applications with full consideration for newly evolved implications of piecewise linear and generalized functions. Features practical examples across structural mechanics, medicine, quantum theory, signal theory, semiconductor theory, mechanical engineering, and heat engineering among other fields. Includes questions for review, sample problems, and a separate Solutions Manual hosted for instructor access. Considers numerical verification of approximation methods. **Pareto Optimality, Game Theory and Equilibria** Panos M. Pardalos, A. Migdalas, Leonidas Pitsoulis, 2008-07-02. This comprehensive work examines important recent developments and modern applications in the fields of optimization, control, game theory, and equilibrium programming. In particular, the concepts of equilibrium and optimality are of immense practical importance, affecting decision-making problems regarding policy and strategies and in understanding and predicting systems in different application domains ranging from economics and engineering to military applications. The book consists of 29 survey chapters written by distinguished researchers in the above areas. Proceedings of the Fourteenth Annual ACM-SIAM Symposium on Discrete Algorithms, 2003-01-01. From the January 2003 symposium come just over 100 papers addressing a range of topics related to discrete algorithms. Examples of topics covered include packing Steiner trees, counting inversions in lists, directed scale-free graphs, quantum property testing, and improved results for directed multicut. The papers were not formally refereed, but attempts were made to verify major results. Annotation c 2003 Book News, Inc., Portland, OR. booknews.com. Summaries of Projects Completed in Fiscal Year ..., 1977. Bulletin of the Institute of Mathematics, Academia Sinica. Zhong yang yan jiu yuan. Shu xue yan jiu suo, 1997. **Applicable Mathematics in the Golden Age** J. C. Misra, 2003. This comprehensive volume introduces educational units dealing with the various emerging branches of Applicable Mathematics. It consists of chapters that deal with the major areas of pure mathematics and emphasises the cross-field application of the skills conveyed within. **Nonlinear Analysis** Qamrul Hasan Ansari, 2014-06-05. Many of our daily life problems can be written in the form of an optimization problem. Therefore, solution methods are needed to solve such problems. Due to the complexity of the problems, it is not always easy to find the exact solution. However, approximate solutions can be found. The theory of the best approximation is applicable in a variety of problems arising in nonlinear

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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
 - Journal Of Approximation Theory And Applications Public Domain eBooks
 - Journal Of Approximation Theory And Applications eBook Subscription Services
 - Journal Of Approximation Theory And Applications Budget-Friendly Options

6. Navigating Journal Of Approximation Theory And Applications eBook Formats
 - ePub, PDF, MOBI, and More
 - 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
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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