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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; 41Axx.

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 finitisation 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 Π 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 (1986) 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 areas 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, Pade 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 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 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   **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 export advice teaching and learning inductive inference and statistical theory of learning and

pattern recognition   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

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Applications S.P. Singh,2012-12-06 These are the Proceedings of the NATO Advanced Study Institute on Approximation Theory Spline Functions and Applications held in the Hotel villa del Mare Maratea Italy between April 28 1991 and May 9 1991 The principal aim of the Advanced Study Institute as reflected in these Proceedings was to bring together recent and up to date developments of the subject and to give directions for future research Amongst the main topics covered during this Advanced Study Institute is the subject of uni variate and multivariate wavelet decomposition over spline spaces This is a relatively new area in approximation theory and an increasingly impor tant subject The work involves key techniques in approximation theory cardinal splines B splines Euler Frobenius polynomials spline spaces with non uniform knot sequences A number of scientific applications are also highlighted most notably applications to signal processing and digital im age processing Developments in the area of approximation of functions examined in the course of our discussions include approximation of periodic phenomena over irregular node distributions scattered data interpolation Pade approximants in one and several variables approximation properties of weighted Chebyshev polynomials minimax approximations and the Strang Fix conditions and their relation to radial functions I express my sincere thanks to the members of the Advisory Commit tee Professors B Beauzamy E W Cheney J Meinguet D Roux and G M Phillips My sincere appreciation and thanks go to A Carbone E DePas cale R Charron and B   Summaries of Projects Completed National Science Foundation (U.S.),   **Research Review** United States. Air Force. Office of Aerospace Research,1967   Mathematical Programming Study ,1984   *Summaries of Projects Completed in Fiscal Year ...* National Science Foundation (U.S.),1977   The Aeronautical Journal ,1921   *Contents of Contemporary Mathematical Journals* ,1974   **SIAM Journal on Matrix Analysis and Applications** ,2007   Bulletin of the Institute of Mathematics, Academia Sinica Zhong yang yan jiu yuan. Shu xue yan jiu suo,1997   *Fulltext Sources Online* ,2007-07   **The Electrical Journal** ,1879

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