



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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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 functional analysis and optimization. This book highlights interesting aspects of nonlinear analysis and optimization together with many applications in the areas of physical and social sciences including engineering. It is immensely helpful for young graduates and researchers who are pursuing research in this field as it provides abundant research resources for researchers and post doctoral fellows. This will be a valuable addition to the library of anyone who works in the field of applied mathematics, economics, and engineering.

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. *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 into 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

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Spline Functions and 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 important 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 image 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 Committee Professors B Beauzamy E W Cheney J Meinguet D Roux and G M Phillips My sincere appreciation and thanks go to A Carbone E DePascale R Charron and B

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