

Approximation by polynomials

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Contents:

1. Introduction
 2. The Weierstrass approximation theorem
 3. Estimates for the Bernstein polynomials
 4. Weierstrass' original proof
 5. The Stone–Weierstrass approximation theorem
 6. Chebyshev's theorems
 7. Approximation by polynomials and trigonometric polynomials
 8. The nonexistence of a continuous linear projection
 9. Approximation of functions of higher regularity
 10. Inverse theorems
- References

Introductory remarks

These notes comprise the main part of a course on approximation theory presented at Uppsala University in the Fall of 1998, viz. the part on polynomial approximation. The material is mainly classical. As sources I used Cheney [1966], Džjadyk [1977], Korovkin [1959], and Lorentz [1953], as well as papers listed in the bibliography. The emphasis is on explaining the main ideas behind the most important techniques.

The last part of the course was on rational approximation and is not included here. I followed mainly Cheney [1966, Chapter 5, pp. 150–167]. I also discussed Padé approximation briefly, following Cheney [1966, Chapter 5, pp. 173–177] and the introduction in Rudáľy [1998].

I am grateful to Tsehaye Kahsu Araya for remarks to the manuscript.

1. Introduction

What is approximation theory? Maybe at the end of this course we will be able to give a mature answer to this question. For the time being, let me just sketch a kind of formal framework for the problems we are going to study.

We have a metric space X and we want to approximate a given element $x \in X$ by an element a of some subset A of X . The elements of A are “nice” or “tractable” and we want to make the distance between x and a as small as possible: we call this “to make a good approximation of x by elements of A .”

A metric space X is a set X together with a metric d . That d is a metric means that it is a function $d: X^2 \rightarrow \mathbf{R}$ which satisfies three properties: it is *positive definite*:

$$(1.1) \quad d(x, y) \geq 0 \text{ for all } x, y \in X \text{ with equality precisely when } x = y;$$

it is *symmetric*:

$$(1.2) \quad d(x, y) = d(y, x) \text{ for all } x, y \in X;$$

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Table of Contents Approximation By Polynomials With Integr

1. Understanding the eBook Approximation By Polynomials With Integr
 - The Rise of Digital Reading Approximation By Polynomials With Integr
 - Advantages of eBooks Over Traditional Books
2. Identifying Approximation By Polynomials With Integr
 - 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 Approximation By Polynomials With Integr
 - User-Friendly Interface
4. Exploring eBook Recommendations from Approximation By Polynomials With Integr
 - Personalized Recommendations
 - Approximation By Polynomials With Integr User Reviews and Ratings
 - Approximation By Polynomials With Integr and Bestseller Lists
5. Accessing Approximation By Polynomials With Integr Free and Paid eBooks
 - Approximation By Polynomials With Integr Public Domain eBooks
 - Approximation By Polynomials With Integr eBook Subscription Services
 - Approximation By Polynomials With Integr Budget-Friendly Options

6. Navigating Approximation By Polynomials With Integr eBook Formats
 - ePub, PDF, MOBI, and More
 - Approximation By Polynomials With Integr Compatibility with Devices
 - Approximation By Polynomials With Integr Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Approximation By Polynomials With Integr
 - Highlighting and Note-Taking Approximation By Polynomials With Integr
 - Interactive Elements Approximation By Polynomials With Integr
8. Staying Engaged with Approximation By Polynomials With Integr
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Approximation By Polynomials With Integr
9. Balancing eBooks and Physical Books Approximation By Polynomials With Integr
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Approximation By Polynomials With Integr
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Approximation By Polynomials With Integr
 - Setting Reading Goals Approximation By Polynomials With Integr
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Approximation By Polynomials With Integr
 - Fact-Checking eBook Content of Approximation By Polynomials With Integr
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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