

Best Approximation in Real Linear 2-Normed Spaces

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Abstract: This paper delineates existence, characterizations and strong unicity of best uniform approximations in real linear 2-normed spaces.

AMS Subject Classification: 41A50, 41A52, 41A99, 41A25.

Key Words and Phrases: Best approximation, existence, 2-normed linear spaces.

I. Introduction

The concepts of linear 2-normed spaces were initially introduced by Gähler [5] in 1964. Since then many researchers (see also [2,4]) have studied the geometric structure of 2-normed spaces and obtained various results. This paper mainly deals with existence, characterizations and unicity of best uniform approximation with respect to 2-norm. Section 2 provides some important definitions and results that are used in the sequel. Some main results of the set of best uniform approximation in the context of linear 2-normed spaces are established in Section 3.

II. Preliminaries

Definition 2.1. Let X be a linear space over real numbers with dimension greater than one and let $\|\cdot, \cdot\|$ be a real-valued function on $X \times X$ satisfying the following properties for all x, y, z in X .

- (i) $\|x, y\| = 0$ if and only if x and y are linearly dependent.
- (ii) $\|x, y\| = \|y, x\|$.
- (iii) $\|\alpha x, y\| = |\alpha| \|x, y\|$, where α is a real number.
- (iv) $\|x, y+z\| \leq \|x, y\| + \|x, z\|$.

Then $\|\cdot, \cdot\|$ is called a 2-norm and the linear space X equipped with 2-norm is called a linear 2-normed space. It is clear that 2-norm is non-negative.

Example 2.2. Let $X = \mathbb{R}^3$ with usual component wise vector additions and scalar multiplications. For $x = (a_1, b_1, c_1)$ and $y = (a_2, b_2, c_2)$ in X , define

$$\|x, y\| = \max\{|a_1b_2 - a_2b_1|, |b_1c_2 - b_2c_1|, |a_1c_2 - a_2c_1|\}.$$

Then clearly $\|\cdot, \cdot\|$ is a 2-norm on X .

Definition 2.3. Let G be a subset of a real linear 2-normed space X and $x \in X$. Then $g_0 \in G$ is said to be a best approximation to x from the elements of G if

$$\|x - g_0, x\| = \inf\{\|x - g, x\| : g \in G\}$$

$g \in G$

where $V(x, G)$ is the subspace generated by x and G .

The set of all elements of best approximation to $x \in X$ from G with respect to the set x is denoted by $P_G(x)$.

Definition 2.4. A linear 2-normed space $(X, \|\cdot, \cdot\|)$ is said to be strictly convex if

$$\|a + b, c\| = \|a, c\| + \|b, c\|, \quad \|a, c\| = \|b, c\| = 1 \text{ and } c \notin V(a, b) \implies a = b.$$

or

Best Approximation In Normed Linear Spac

J. R. Giles



Best Approximation In Normed Linear Spac:

Best Approximation in Inner Product Spaces Frank Deutsch, 2001-04-20 This book evolved from notes originally developed for a graduate course Best Approximation in Normed Linear Spaces that I began giving at Penn State University more than 25 years ago It soon became evident that many of the students who wanted to take the course including engineers computer scientists and statisticians as well as mathematicians did not have the necessary prerequisites such as a working knowledge of L_p spaces and some basic functional analysis Today such material is typically contained in the first year graduate course in analysis To accommodate these students I usually ended up spending nearly half the course on these prerequisites and the last half was devoted to the best approximation part I did this a few times and determined that it was not satisfactory Too much time was being spent on the presumed prerequisites To be able to devote most of the course to best approximation I decided to concentrate on the simplest of the normed linear spaces the inner product spaces since the theory in inner product spaces can be taught from first principles in much less time and also since one can give a convincing argument that inner product spaces are the most important of all the normed linear spaces anyway The success of this approach turned out to be even better than I had originally anticipated One can develop a fairly complete theory of best approximation in inner product spaces from first principles and such was my purpose in writing this book

Approximation Theory and Methods M. J. D. Powell, 1981-03-31 Most functions that occur in mathematics cannot be used directly in computer calculations Instead they are approximated by manageable functions such as polynomials and piecewise polynomials The general theory of the subject and its application to polynomial approximation are classical but piecewise polynomials have become far more useful during the last twenty years Thus many important theoretical properties have been found recently and many new techniques for the automatic calculation of approximations to prescribed accuracy have been developed This book gives a thorough and coherent introduction to the theory that is the basis of current approximation methods Professor Powell describes and analyses the main techniques of calculation supplying sufficient motivation throughout the book to make it accessible to scientists and engineers who require approximation methods for practical needs Because the book is based on a course of lectures to third year undergraduates in mathematics at Cambridge University sufficient attention is given to theory to make it highly suitable as a mathematical textbook at undergraduate or postgraduate level

Best Approximation in Normed Linear Spaces by Elements of Linear Subspaces Ivan Singer, 2013-12-14

Best Approximation in Inner Product Spaces Frank R. Deutsch, 2012-12-06 This book evolved from notes originally developed for a graduate course Best Approximation in Normed Linear Spaces that I began giving at Penn State University more than 25 years ago It soon became evident that many of the students who wanted to take the course including engineers computer scientists and statisticians as well as mathematicians did not have the necessary prerequisites such as a working knowledge of L_p spaces and some basic functional analysis Today such material is typically

contained in the first year graduate course in analysis To accommodate these students I usually ended up spending nearly half the course on these prerequisites and the last half was devoted to the best approximation part I did this a few times and determined that it was not satisfactory Too much time was being spent on the presumed prerequisites To be able to devote most of the course to best approximation I decided to concentrate on the simplest of the normed linear spaces the inner product spaces since the theory in inner product spaces can be taught from first principles in much less time and also since one can give a convincing argument that inner product spaces are the most important of all the normed linear spaces anyway The success of this approach turned out to be even better than I had originally anticipated One can develop a fairly complete theory of best approximation in inner product spaces from first principles and such was my purpose in writing this book

Best Approximation in Normed Linear Spaces Ivan Singer, 1971 **Introduction to the Analysis of Normed Linear Spaces** J. R. Giles, 2000-03-13 This is a basic course in functional analysis for senior undergraduate and beginning postgraduate students The reader need only be familiar with elementary real and complex analysis linear algebra and have studied a course in the analysis of metric spaces knowledge of integration theory or general topology is not required The text concerns the structural properties of normed linear spaces in general especially associated with dual spaces and continuous linear operators on normed linear spaces The implications of the general theory are illustrated with a great variety of example spaces *Topics in Approximation Theory* Harold S. Shapiro, 2006-11-15 **Constructive Aspects of Functional Analysis** Giuseppe Geymonat, 2011-06-21 A Balakrishnan A constructive approach to optimal control R Glowinski M Thodes itatives duales pour la minimisation de fonctionnelles convexes J L Lions Approximation numérique des équations d'évolution G Marchuk Introduction to the methods of numerical analysis U Mosco An introduction to the approximate solution of variational inequalities I Singer Best approximation in normed linear spaces G Strang A Fourier analysis of the finite element variational method M Zerner Caractéristiques d'approximation des compacts dans les espaces fonctionnels et problèmes aux limites elliptiques *Mathematical Analysis* R. V. Gamkrelidze, 2012-12-06 This volume contains three articles Asymptotic methods in the theory of ordinary differential equations by V F Butuzov A B Vasil'eva and M V Fedoryuk The theory of best approximation in normed linear spaces by A L Garkavi and Dynamical systems with invariant measure by A VI Vershik and S A Yuzvinskii The first article surveys the literature on linear and non linear singular asymptotic problems in particular differential equations with a small parameter The period covered by the survey is primarily 1962-1967 The second article is devoted to the problem of existence characterization and uniqueness of best approximations in Banach spaces One of the chapters also deals with the problem of the convergence of positive operators inasmuch as the ideas and methods of this theory are close to those of the theory of best approximation The survey covers the literature of the decade 1958-1967 The third article is devoted to a comparatively new and rapidly growing branch of mathematics which is closely related to many classical and modern mathematical disciplines A survey is given of results in entropy theory classical dynamic systems

ergodic theorems etc The results surveyed were primarily published during the period 1956-1967 Approximation of Functions: Theory and Numerical Methods Günter Meinardus, 2012-12-06 for example the so called L_p approximation the Bernstein approximation problem approximation on the real line by certain entire functions and the highly interesting studies of J. L. WALSH on approximation in the complex plane I would like to extend sincere thanks to Professor L. COLLATZ for his many encouragements for the writing of this book Thanks are equally due to Springer Verlag for their ready agreement to my wishes and for the excellent and competent composition of the book In addition I would like to thank Dr W. KRABS Dr A. G. MEYER and D. SCHWEDT for their very careful reading of the manuscript Hamburg March 1964 GÜNTER MEINARDUS Preface to the English Edition This English edition was translated by Dr LARRY SCHUMAKER Mathematics Research Center United States Army The University of Wisconsin Madison from a supplemented version of the German edition Apart from a number of minor additions and corrections and a few new proofs e.g. the new proof of JACKSON'S Theorem it differs in detail from the first edition by the inclusion of a discussion of new work on comparison theorems in the case of so called regular Haar systems 6 and on Segment Approximation 11 I want to thank the many readers who provided comments and helpful suggestions My special thanks are due to the translator to Springer Verlag for their ready compliance with all my wishes to Mr **Nonlinear and Distributed Circuits** Wai-Kai Chen, 2018-10-08 Culled from the pages of CRC's highly successful best selling The Circuits and Filters Handbook Second Edition Nonlinear and Distributed Circuits presents a sharply focused comprehensive review of the fundamental theory behind professional applications of these complex circuits It supplies a concise convenient reference to the key concepts models and equations necessary to analyze design and predict the behavior of nonlinear and distributed circuits illustrated by frequent examples Edited by a distinguished authority this book emphasizes the theoretical concepts underlying the processes behavior and operation of these devices More than 225 figures and tables illustrate the concepts and where necessary the theories principles and mathematics of some subjects are reviewed Expert contributors discuss the analysis synthesis and design of nonlinear circuits their representation approximation identification and simulation cellular neural networks multiconductor transmission lines and analysis and synthesis of distributed circuits Nonlinear and Distributed Circuits builds a strong theoretical foundation for the design and analysis of both distributed and nonlinear circuits while serving as a handy reference for experienced engineers making it a must have for both beginners and seasoned experts **Information-Theoretic Methods for Estimating of Complicated Probability Distributions** Zhi Zong, 2006-08-15 Mixing up various disciplines frequently produces something that are profound and far reaching Cybernetics is such an often quoted example Mix of information theory statistics and computing technology proves to be very useful which leads to the recent development of information theory based methods for estimating complicated probability distributions Estimating probability distribution of a random variable is the fundamental task for quite some fields besides statistics such as reliability probabilistic risk analysis PSA machine learning pattern

recognition image processing neural networks and quality control Simple distribution forms such as Gaussian exponential or Weibull distributions are often employed to represent the distributions of the random variables under consideration as we are taught in universities In engineering physical and social science applications however the distributions of many random variables or random vectors are so complicated that they do not fit the simple distribution forms at all Exact estimation of the probability distribution of a random variable is very important Take stock market prediction for example Gaussian distribution is often used to model the fluctuations of stock prices If such fluctuations are not normally distributed and we use the normal distribution to represent them how could we expect our prediction of stock market is correct Another case well exemplifying the necessity of exact estimation of probability distributions is reliability engineering Failure of exact estimation of the probability distributions under consideration may lead to disastrous designs There have been constant efforts to find appropriate methods to determine complicated distributions based on random samples but this topic has never been systematically discussed in detail in a book or monograph The present book is intended to fill the gap and documents the latest research in this subject Determining a complicated distribution is not simply a multiple of the workload we use to determine a simple distribution but it turns out to be a much harder task Two important mathematical tools function approximation and information theory that are beyond traditional mathematical statistics are often used Several methods constructed based on the two mathematical tools for distribution estimation are detailed in this book These methods have been applied by the author for several years to many cases They are superior in the following senses 1 No prior information of the distribution form to be determined is necessary It can be determined automatically from the sample 2 The sample size may be large or small 3 They are particularly suitable for computers It is the rapid development of computing technology that makes it possible for fast estimation of complicated distributions The methods provided herein will demonstrate the significant cross influences between information theory and statistics and showcase the fallacies of traditional statistics that however can be overcome by information theory Key Features Density functions automatically determined from samples Free of assuming density forms Computation effective methods suitable for PC density functions automatically determined from samples Free of assuming density forms Computation effective methods suitable for PC

The Circuits and Filters

Handbook Wai-Kai Chen, 2002-12-23 A bestseller in its first edition The Circuits and Filters Handbook has been thoroughly updated to provide the most current most comprehensive information available in both the classical and emerging fields of circuits and filters both analog and digital This edition contains 29 new chapters with significant additions in the areas of computer Nonlinear Approximation Theory Dietrich Braess, 2012-12-06 The first investigations of nonlinear approximation problems were made by P L Chebyshev in the last century and the entire theory of uniform approximation is strongly connected with his name By making use of his ideas the theories of best uniform approximation by rational functions and by polynomials were developed over the years in an almost unified framework The difference between linear and rational

approximation and its implications first became apparent in the 1960 s At roughly the same time other approaches to nonlinear approximation were also developed The use of new tools such as nonlinear functional analysis and topological methods showed that linearization is not sufficient for a complete treatment of nonlinear families In particular the application of global analysis and the consideration of flows on the family of approximating functions introduced ideas which were previously unknown in approximation theory These were and still are important in many branches of analysis On the other hand methods developed for nonlinear approximation problems can often be successfully applied to problems which belong to or arise from linear approximation An important example is the solution of moment problems via rational approximation Best quadrature formulae or the search for best linear spaces often leads to the consideration of spline functions with free nodes The most famous problem of this kind namely best interpolation by polynomials is treated in the appendix of this book

Asian Mathematical Conference, 1990 - Proceedings Of The Conference Zhong Li, Kar Ping Shum, Chung-chun Yang, Le Yang, 1992-03-31 **Real Analysis with Economic Applications** Efe A. Ok, 2011-09-05 There are many mathematics textbooks on real analysis but they focus on topics not readily helpful for studying economic theory or they are inaccessible to most graduate students of economics Real Analysis with Economic Applications aims to fill this gap by providing an ideal textbook and reference on real analysis tailored specifically to the concerns of such students The emphasis throughout is on topics directly relevant to economic theory In addition to addressing the usual topics of real analysis this book discusses the elements of order theory convex analysis optimization correspondences linear and nonlinear functional analysis fixed point theory dynamic programming and calculus of variations Efe Ok complements the mathematical development with applications that provide concise introductions to various topics from economic theory including individual decision theory and games welfare economics information theory general equilibrium and finance and intertemporal economics Moreover apart from direct applications to economic theory his book includes numerous fixed point theorems and applications to functional equations and optimization theory The book is rigorous but accessible to those who are relatively new to the ways of real analysis The formal exposition is accompanied by discussions that describe the basic ideas in relatively heuristic terms and by more than 1 000 exercises of varying difficulty This book will be an indispensable resource in courses on mathematics for economists and as a reference for graduate students working on economic theory Handbook of Mathematics Vialar Thierry, 2023-08-22 The book revised consists of XI Parts and 28 Chapters covering all areas of mathematics It is a tool for students scientists engineers students of many disciplines teachers professionals writers and also for a general reader with an interest in mathematics and in science It provides a wide range of mathematical concepts definitions propositions theorems proofs examples and numerous illustrations The difficulty level can vary depending on chapters and sustained attention will be required for some The structure and list of Parts are quite classical I Foundations of Mathematics II Algebra III Number Theory IV Geometry V Analytic Geometry VI Topology VII Algebraic Topology VIII Analysis IX Category Theory X

Probability and Statistics XI Applied Mathematics Appendices provide useful lists of symbols and tables for ready reference Extensive cross references allow readers to find related terms concepts and items by page number heading and objet such as theorem definition example etc The publisher s hope is that this book slightly revised and in a convenient format will serve the needs of readers be it for study teaching exploration work or research *FUNCTIONAL ANALYSIS* NAIR, M.

THAMBAN,2021-01-01 Intended as an introductory text on Functional Analysis for the postgraduate students of Mathematics this compact and well organized book covers all the topics considered essential to the subject In so doing it provides a very good understanding of the subject to the reader The book begins with a review of linear algebra and then it goes on to give the basic notion of a norm on linear space proving thereby most of the basic results progresses gradually dealing with operators and proves some of the basic theorems of Functional Analysis Besides the book analyzes more advanced topics like dual space considerations compact operators and spectral theory of Banach and Hilbert space operators The text is so organized that it strives particularly in the last chapter to apply and relate the basic theorems to problems which arise while solving operator equations The present edition is a thoroughly revised version of its first edition which also includes a section on Hahn Banach extension theorem for operators and discussions on Lax Milgram theorem This student friendly text with its clear exposition of concepts should prove to be a boon to the beginner aspiring to have an insight into Functional Analysis KEY FEATURES Plenty of examples have been worked out in detail which not only illustrate a particular result but also point towards its limitations so that subsequent stronger results follow Exercises which are designed to aid understanding and to promote mastery of the subject are interspersed throughout the text TARGET AUDIENCE M Sc Mathematics

Topological Vector Spaces Lawrence Narici,Edward Beckenstein,2010-07-26 With many new concrete examples and historical notes Topological Vector Spaces Second Edition provides one of the most thorough and up to date treatments of the Hahn Banach theorem This edition explores the theorem s connection with the axiom of choice discusses the uniqueness of Hahn Banach extensions and includes an entirely new chapter on v

Numerical Analysis and Scientific Computation Jeffery J. Leader,2022-05-11 This is an introductory single term numerical analysis text with a modern scientific computing flavor It offers an immediate immersion in numerical methods featuring an up to date approach to computational matrix algebra and an emphasis on methods used in actual software packages always highlighting how hardware concerns can impact the choice of algorithm It fills the need for a text that is mathematical enough for a numerical analysis course yet applied enough for students of science and engineering taking it with practical need in mind The standard methods of numerical analysis are rigorously derived with results stated carefully and many proven But while this is the focus topics such as parallel implementations the Basic Linear Algebra Subroutines halfto quadruple precision computing and other practical matters are frequently discussed as well Prior computing experience is not assumed Optional MATLAB subsections for each section provide a comprehensive self taught tutorial and also allow students to engage in numerical

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Table of Contents Best Approximation In Normed Linear Spac

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

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