

### 4.2.2 Best Approximations in Inner Product Spaces

Consider now the problem of finding the best approximation in an inner product space. Specifically, we wish to find  $w \in W \subset V$  that is closest to a given  $v \in V$ , where  $V$  is an inner product space and  $W$  is finite-dimensional. Let  $W = \text{span}(w_1, w_2, \dots, w_n) \subset V$ , where  $\{w_i\}_{i=1}^n$  is a linearly independent set. We wish to find  $w \in W$  such that  $\|w - v\|^2 \leq \|u - v\|^2$  for all  $u \in W$ . But

$$\begin{aligned}\|w - v\|^2 &= (w - v, w - v) \\ &= \left( \sum_{j=1}^n \alpha_j w_j - v, \sum_{k=1}^n \alpha_k w_k - v \right) \\ &= \sum_j \sum_k \alpha_j \alpha_k (w_j, w_k) - \sum_j \alpha_j (v, w_j) - \sum_k \alpha_k (v, w_k) + (v, v) \\ &= F(\alpha_1, \alpha_2, \dots, \alpha_n),\end{aligned}$$

where  $w = \sum_{j=1}^n \alpha_j w_j$ .

Thus, the problem reduces to finding the minimum of  $F$  as a function of  $\alpha_1, \alpha_2, \dots, \alpha_n$ . Hence, setting  $\partial F / \partial \alpha_\ell = 0$  gives

$$\sum_{j=1}^n \alpha_j (w_j, w_\ell) - (v, w_\ell) = 0,$$

or

$$\sum_{j=1}^n \alpha_j (w_j, w_\ell) = (v, w_\ell) \text{ for } \ell = 1, 2, \dots, n. \quad (4.1)$$

Equations (4.1) represent a linear system that is positive definite and hence invertible, and thus can be solved for the  $\alpha_j$ . In this case, the best approximation  $w$  is called the least-squares approximation. (The matrix corresponding to the system (4.1) is often called the *Gram matrix*.)

# Best Approximation In Inner Product Spaces

**An-Chyau Huang, Ming-Chih Chien**



## **Best Approximation In Inner Product Spaces:**

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 Inner Product Spaces Frank R. Deutsch, 2014-09-01 Theoretical Numerical Analysis Kendall Atkinson, Weimin Han, 2007-06-07 Mathematics is playing an ever more important role in the physical and biological sciences, provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest, both in research and teaching, has led to the establishment of the series Texts in Applied Mathematics (TAM). The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques, such as numerical and symbolic computer systems, dynamical systems, and chaos, mix with and reinforce the traditional methods of applied mathematics. Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses. TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences (AMS) series which will focus on advanced textbooks and research level monographs. *Best Approximation in Inner Product Spaces* Deutsch, 1998-12-01 *Shock capturing and high-order methods for hyperbolic conservation laws* Jan Glaubitz, 2020-03-20 This thesis is concerned with the numerical treatment of hyperbolic conservation laws. These play an important role in describing many natural phenomena. Challenges in their theoretical as well as numerical study stem from the fact that spontaneous shock discontinuities can arise in their solutions even in finite time and smooth initial states. Moreover, the numerical treatment of hyperbolic conservation laws involves many different fields from mathematics, physics, and computer science. As a consequence, this thesis also provides contributions to several different fields.

of research which are still connected by numerical conservation laws however These contributions include but are not limited to the construction of stable high order quadrature rules for experimental data the development of new stable numerical methods for conservation laws and the investigation and design of shock capturing procedures as a means to stabilize high order numerical methods in the presence of shock discontinuities Jan Glaubitz was born in Braunschweig Germany in 1990 and completed his mathematical studies B Sc 2014 M Sc 2016 Dr rer nat 2019 at TU Braunschweig In 2016 he received awards from the German Mathematical Society DMV for his master s thesis as well as from the Society of Financial and Economic Mathematics of Braunschweig VBFWM In 2017 he was honored with the teaching award LehrLEO for the best tutorial at TU Braunschweig Since 2020 he holds a position as a postdoctoral researcher at Dartmouth College NH USA

*New Classes of Codes for Cryptologists and Computer Scientists* W. B. Vasantha Kandasamy, Florentin Smarandache, 2008 In this book new classes of codes are introduced to help cryptologists and computer scientists These codes will find application in networking and data storage Further these new classes of codes cannot be easily cracked by hackers so they will be useful in defense departments **Special Classes of Set Codes and Their Applications** W. B. Vasantha Kandasamy, 2008 This book provides for the first time a few classes of Set Codes the most generalized class of algebraic codes These codes are best suited for their applications in cryptography coding block truncation image compression computer networking and data storage **Super Special Codes Using Super Matrices** W. B. Vasantha Kandasamy, Florentin Smarandache, K. Ilanthenral, W. B. Vasantha Kandasamy, Florentin Smarandache, K. Ilanthenral, 2010 Super special codes are constructed for the first time using super matrices Several interesting properties of these codes along with their applications to other fields are discussed in this book **Afternotes Goes to Graduate School** G. W. Stewart, 1998-01-01 In this follow up to Afternotes on Numerical Analysis SIAM 1996 the author continues to bring the immediacy of the classroom to the printed page Like the original undergraduate volume Afternotes Goes to Graduate School is the result of the author writing down his notes immediately after giving each lecture in this case the afternotes are the result of a follow up graduate course taught by Professor Stewart at the University of Maryland The algorithms presented in this volume require deeper mathematical understanding than those in the undergraduate book and their implementations are not trivial Stewart uses a fresh presentation that is clear and intuitive as he covers topics such as discrete and continuous approximation linear and quadratic splines eigensystems and Krylov sequence methods He concludes with two lectures on classical iterative methods and nonlinear equations **Elementary Linear Algebra** Howard Anton, Chris Rorres, 2013-11-04 Elementary Linear Algebra Applications Version 11th Edition gives an elementary treatment of linear algebra that is suitable for a first course for undergraduate students The aim is to present the fundamentals of linear algebra in the clearest possible way pedagogy is the main consideration Calculus is not a prerequisite but there are clearly labeled exercises and examples which can be omitted without loss of continuity for students who have studied calculus Fundamentals of Functional

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Scientific Computing Kyle Novak,2022-03-13 A comprehensive guide to the theory intuition and application of numerical methods in linear algebra analysis and differential equations With extensive commentary and code for three essential scientific computing languages Julia Python and Matlab      **Adaptive Control of Robot Manipulators** An-Chyau

Huang,Ming-Chih Chien,2010 This book introduces an unified function approximation approach to the control of uncertain robot manipulators containing general uncertainties It works for free space tracking control as well as compliant motion control It is applicable to the rigid robot and the flexible joint robot Even with actuator dynamics the unified approach is still feasible All these features make the book stand out from other existing publications      Numerical Analysis David Ronald

Kincaid,Elliott Ward Cheney,2009 This book introduces students with diverse backgrounds to various types of mathematical analysis that are commonly needed in scientific computing The subject of numerical analysis is treated from a mathematical point of view offering a complete analysis of methods for scientific computing with appropriate motivations and careful proofs In an engaging and informal style the authors demonstrate that many computational procedures and intriguing questions of computer science arise from theorems and proofs Algorithms are presented in pseudocode so that students can immediately write computer programs in standard languages or use interactive mathematical software packages This book occasionally touches upon more advanced topics that are not usually contained in standard textbooks at this level

**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  $v$       *Adaptive Control Of Underactuated Mechanical*

*Systems* An-chyau Huang,Yung-feng Chen,Chen-yu Kai,2015-01-29 In this book we collected recent results on the control of underactuated mechanical systems subject to internal uncertainties and external disturbances The strategy developed is so universal that it is not restricted to a specific system but a large class of underactuated systems Several benchmark systems are studied in this book including detailed literature review system dynamics derivation control problem formulation and simulation verification The control strategy developed in chapter 4 is able to stabilize all these benchmark systems with

satisfactory performance regardless of the underactuated dynamics and various uncertainties The book is written as a text suitable for graduate students in the advanced course for the control of underactuated systems It also provides valuable tools for researchers and practicing engineers working on the control of underactuated mechanical systems *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 Geometric Approximation Theory Alexey R. Alimov, Igor' G. Tsar'kov, 2022-03-29 This monograph provides a comprehensive introduction to the classical geometric approximation theory emphasizing important themes related to the theory including uniqueness stability and existence of elements of best approximation It presents a number of fundamental results for both these and related problems many of which appear for the first time in monograph form The text also discusses the interrelations between main objects of geometric approximation theory formulating a number of auxiliary problems for demonstration Central ideas include the problems of existence and uniqueness of elements of best approximations as well as properties of sets including subspaces of polynomials and splines classes of rational functions and abstract subsets of normed linear spaces The book begins with a brief introduction to geometric approximation theory progressing through fundamental classical ideas and results as a basis for various approximation sets and Chebyshev systems It concludes with a review of approximation by abstract sets and related problems presenting novel results throughout the section This text is suitable for both theoretical and applied viewpoints and especially researchers interested in advanced aspects of the field **Soft Computing** Pradip Debnath, Binod Chandra Tripathy, 2024-09-30 This book examines the latest developments in the area of soft computing with engineering applications It explores topics such as fuzzy sets intuitionistic fuzzy sets unmanned aerial vehicles soft sets neutrosophic sets fractional calculus big data analytics and the mathematical foundations of convolutional neural network CNNs *Soft Computing Engineering Applications* offers readers a comprehensive and in depth understanding of various cutting edge technologies that are transforming industries worldwide The book explores soft computing techniques in a very systematic manner It elucidates the concepts theories and applications of fuzzy sets enabling readers to grasp the fundamentals and explore their applications in various fields It provides new insight into unmanned aerial vehicle applications to fuzzy soft set based decision making It then discusses new fixed point results in orthogonal neutrosophic generalized metric spaces and explores statistical convergence of triple sequences in a credibility space The authors then provide readers with a solid grasp of the mathematical underpinnings of CNNs enabling them to design train and optimize neural networks for image recognition

object detection and other computer vision tasks The authors also present new studies in fractional calculus and explores advanced visualization algorithms and techniques for big data analytics Soft Computing will be useful for beginners and advanced researchers in engineering applied sciences and healthcare professionals working in soft computing applications

*From Vector Spaces to Function Spaces* Yutaka Yamamoto, 2012-10-31 A guide to analytic methods in applied mathematics from the perspective of functional analysis suitable for scientists engineers and students

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