

# CONTEMPORARY MATHEMATICS

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## Geometry of Normed Linear Spaces

Proceedings of a Conference  
held June 9–12, 1983  
in honor of Mahlon Marsh Day



# Geometry Of Normed Linear Spaces

**Raymond W. Freese, Yeol Je Cho**



## **Geometry Of Normed Linear Spaces:**

**Geometry of Normed Linear Spaces** Robert Gardner Bartle,1986 Features 17 papers that resulted from a 1983 conference held to honor Professor Mahlon Marsh Day upon his retirement from the University of Illinois This work is suitable for researchers and graduate students in functional analysis [Geometry of Normed Linear Spaces](#) R. G.

Birtle,1986 **Geometry of Linear 2-normed Spaces** Raymond W. Freese,Yeol Je Cho,2001 *Geometry of a Normed Linear Space* Margaret Ann Tevis Herzog,1959 **The Geometry of Metric and Linear Spaces** L. M. Kelly,2006-11-14

**Handbook of the Geometry of Banach Spaces** ,2003-05-06 Handbook of the Geometry of Banach Spaces

**Handbook of the Geometry of Banach Spaces** William B. Johnson,Joram Lindenstrauss,2001 The Handbook presents an overview of most aspects of modern Banach space theory and its applications The up to date surveys authored by leading research workers in the area are written to be accessible to a wide audience In addition to presenting the state of the art of Banach space theory the surveys discuss the relation of the subject with such areas as harmonic analysis complex analysis classical convexity probability theory operator theory combinatorics logic geometric measure theory and partial differential equations The Handbook begins with a chapter on basic concepts in Banach space theory which contains all the background needed for reading any other chapter in the Handbook Each of the twenty one articles in this volume after the basic concepts chapter is devoted to one specific direction of Banach space theory or its applications Each article contains a motivated introduction as well as an exposition of the main results methods and open problems in its specific direction Most have an extensive bibliography Many articles contain new proofs of known results as well as expositions of proofs which are hard to locate in the literature or are only outlined in the original research papers As well as being valuable to experienced researchers in Banach space theory the Handbook should be an outstanding source for inspiration and information to graduate students and beginning researchers The Handbook will be useful for mathematicians who want to get an idea of the various developments in Banach space theory *Surveys in Geometry I* Athanase Papadopoulos,2022-02-18 The volume consists of a set of surveys on geometry in the broad sense The goal is to present a certain number of research topics in a non technical and appealing manner The topics surveyed include spherical geometry the geometry of finite dimensional normed spaces metric geometry Bishop Gromov type inequalities in Gromov hyperbolic spaces convexity theory and inequalities involving volumes and mixed volumes of convex bodies 4 dimensional topology Teichmüller spaces and mapping class groups actions translation surfaces and their dynamics and complex higher dimensional geometry Several chapters are based on lectures given by their authors to middle advanced level students and young researchers The whole book is intended to be an introduction to current research trends in geometry **Birkhoff-James Orthogonality and Geometry of Operator Spaces** Arpita Mal,Kallol Paul,Debmalya Sain,2024-02-19 This book provides an insight into the geometric aspects of the spaces of operators studied by using the notion of Birkhoff James orthogonality It studies the norm attainment

set of an operator and its properties the notion of which plays a very important role in the characterization of B J orthogonality of operators The structure of the norm attainment set is studied for Hilbert space operators and is yet to be understood completely for operators between Banach spaces The book explores the interrelation between B J orthogonality in the ground space and in the space of operators in its fullest generality The book further explores the concept of approximate B J orthogonality and investigated its geometry both in the ground space as well as in the space of operators It highlights important geometric properties like smoothness and  $k$  smoothness of bounded linear operators extreme contractions and symmetricity of bounded linear operators defined between Hilbert spaces as well as Banach spaces

*Partial Differential Equations and the Geometry of Normed Linear Spaces*, Convexity from the Geometric Point of View Vitor Balestro, Horst Martini, Ralph Teixeira, 2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach Mainly directed to graduate and advanced undergraduates the book is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra Additionally it can be used as a single reference for a complete introduction to convex geometry and the content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field and various subfields The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes It is also appropriate for survey type courses in Banach space theory convex analysis differential geometry and applications of measure theory Solutions to all exercises are available to instructors who adopt the text for coursework Most chapters use the same structure with the first part presenting theory and the next containing a healthy range of exercises Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion Each chapter has a notes section offering a rich narrative to accompany the theory illuminating the development of ideas and providing overviews to the literature concerning the covered topics In most cases these notes bring the reader to the research front The text includes many figures that illustrate concepts and some parts of the proofs enabling the reader to have a better understanding of the geometric meaning of the ideas An appendix containing basic and geometric measure theory collects useful information for convex geometers

**Advanced Topics in Mathematical Analysis** Michael Ruzhansky, Hemen Dutta, 2019-01-08 Advanced Topics in Mathematical Analysis is aimed at researchers graduate students and educators with an interest in mathematical analysis and in mathematics more generally The book aims to present theory methods and applications of the selected topics that have significant useful relevance to contemporary research

*Geometry of Spheres in Normed Spaces* Juan Jorge Schäffer, 1976 [Normed Linear Spaces](#) Mahlon Marsh Day, 2013-06-29 This book contains a compressed introduction to the study of normed linear spaces and to that part of the theory of linear topological spaces without which the main discussion could not well proceed Definitions of many terms which are required in passing can be found in the alphabetical index page 134 Symbols which are used

throughout all or a significant part of this book are indexed on page 132 Each reference to the bibliography page 124 is made by means of the author's name supplemented when necessary by a number in square brackets The bibliography does not completely cover the available literature even the most recent each paper in it is the subject of a specific reference at some point in the text The writer takes this opportunity to express thanks to the University of Illinois the National Science Foundation and the University of Washington each of which has contributed in some degree to the cultural financial or physical support of the writer and to Mr R R PHELPS who eradicated many of the errors with which the manuscript was infested

**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 such as 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

Normed Linear Spaces Mahlon M. Day, 2013-12-01

**The C-cone and Geometric Constructions of (L) and (M) Spaces** Christian Carl Braunschweiger, 1955

**Proceedings of the International Symposium on Partial Differential Equations and the Geometry of Normed Linear Spaces** International Symposium on Partial Differential Equations and the Geometry of Normed Linear Spaces (1972, Yerûšalayim), 1973

**The Geometry of Multidimensional Scaling** Daryl W. Tingley, 1980

Handbook of Convex Geometry Peter M. Gruber, Jörg M. Wills, 1993

Handbook of Convex Geometry Volume B offers a survey of convex geometry and its many ramifications and connections with other fields of mathematics including convexity lattices crystallography and convex functions The selection first offers information on the geometry of numbers lattice points and packing and covering with convex sets Discussions focus on packing in non Euclidean spaces problems in the Euclidean plane general convex bodies computational complexity of lattice point problem centrally symmetric convex bodies reduction theory and lattices and the space of lattices T

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