

Gabor Toth

Measures of Symmetry for Convex Sets and Stability



Measures Symmetry Convex Stability Universitext

Lingsheng Yao

Measures Symmetry Convex Stability Universitext:

Measures of Symmetry for Convex Sets and Stability Gabor Toth, 2015-11-26 This textbook treats two important and related matters in convex geometry the quantification of symmetry of a convex set measures of symmetry and the degree to which convex sets that nearly minimize such measures of symmetry are themselves nearly symmetric the phenomenon of stability By gathering the subject s core ideas and highlights around Gr nbaum s general notion of measure of symmetry it paints a coherent picture of the subject and guides the reader from the basics to the state of the art The exposition takes various paths to results in order to develop the reader's grasp of the unity of ideas while interspersed remarks enrich the material with a behind the scenes view of corollaries and logical connections alternative proofs and allied results from the literature Numerous illustrations elucidate definitions and key constructions and over 70 exercises with hints and references for the more difficult ones test and sharpen the reader's comprehension. The presentation includes a basic course covering foundational notions in convex geometry the three pillars of the combinatorial theory the theorems of Carath odory Radon and Helly critical sets and Minkowski measure the Minkowski Radon inequality and to illustrate the general theory a study of convex bodies of constant width two proofs of F John's ellipsoid theorem a treatment of the stability of Minkowski measure the Banach Mazur metric and Groemer's stability estimate for the Brunn Minkowski inequality important specializations of Gr nbaum's abstract measure of symmetry such as Winternitz measure the Rogers Shepard volume ratio and Guo's Lp Minkowski measure a construction by the author of a new sequence of measures of symmetry the kth mean Minkowski measure and lastly an intriguing application to the moduli space of certain distinguished maps from a Riemannian homogeneous space to spheres illustrating the broad mathematical relevance of the book s subject 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 Convexity from the Geometric Point of View: Exercises and Solutions Vitor Balestro, Horst Martini, Ralph Teixeira, 2025-08-04 This book provides the solutions to all 347 exercises contained in the text Convexity from the Geometric Point of View published in the same Cornerstones series All these exercises are restated and numbered analogously to those in the original text The corresponding solutions follow each exercise Besides the discussion of all solutions some additional facts about the main text are sprinkled throughout Sections of further reading are posted to the ends of each chapter supplying the reader with background literature to selected notions and tools that play a role in the exercises and or solutions to the chapter The original text gives a comprehensive introduction to the common core of convex geometry and is suitable as a primary text for courses in convex geometry and in discrete geometry including polytopes Additionally it can be used as a single reference for a complete introduction to convex geometry. The content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field various subfields and interesting connections to neighboring disciplines Mainly directed to graduate and advanced undergraduates the original text 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 The same is true for this book of solutions Linear Algebra and Matrices Shmuel Friedland, Mohsen Aliabadi, 2018-01-30 This introductory textbook grew out of several courses in linear algebra given over more than a decade and includes such helpful material as constructive discussions about the motivation of fundamental concepts many worked out problems in each chapter and topics rarely covered in typical linear algebra textbooks. The authors use abstract notions and arguments to give the complete proof of the Jordan canonical form and more generally the rational canonical form of square matrices over fields They also provide the notion of tensor products of vector spaces and linear transformations Matrices are treated in depth with coverage of the stability of matrix iterations the eigenvalue properties of linear transformations in inner product spaces singular value decomposition and min max characterizations of Hermitian matrices and nonnegative irreducible matrices. The authors show the many topics and tools encompassed by modern linear algebra to emphasize its relationship to other areas of mathematics The text is intended for advanced undergraduate students Beginning graduate students seeking an introduction to the subject will also find it of interest **Bodies of Constant Width** Horst Martini, Luis Montejano, Déborah Oliveros, 2019-03-16 This is the first comprehensive monograph to thoroughly investigate constant width bodies which is a classic area of interest within convex geometry. It examines bodies of constant width from several points of view and in doing so shows surprising connections between various areas of mathematics Concise explanations and detailed proofs demonstrate the many interesting properties and applications of these bodies

Numerous instructive diagrams are provided throughout to illustrate these concepts An introduction to convexity theory is first provided and the basic properties of constant width bodies are then presented The book then delves into a number of related topics which include Constant width bodies in convexity sections and projections complete and reduced sets mixed volumes and further partial fields Sets of constant width in non Euclidean geometries in real Banach spaces and in hyperbolic spherical and further non Euclidean spaces The concept of constant width in analysis using Fourier series spherical integration and other related methods Sets of constant width in differential geometry using systems of lines and discussing notions like curvature evolutes etc Bodies of constant width in topology hyperspaces transnormal manifolds fiber bundles and related topics. The notion of constant width in discrete geometry referring to geometric inequalities packings and coverings etc Technical applications such as film projectors the square hole drill and rotary engines Bodies of Constant Width An Introduction to Convex Geometry with Applications will be a valuable resource for graduate and advanced undergraduate students studying convex geometry and related fields Additionally it will appeal to any mathematicians with a general interest in geometry Annales de la faculté des sciences de Toulouse, 2008 Mathematical Reviews ,2004 Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff, R R Bowker Publishing, 1996-09 Stability Results Involving Surface Area Measures of Convex Bodies Daniel Hug, Rolf Schneider, 2002 **Similarity and Symmetry** Measures for Convex Sets Based on Minkowski Addition Hendricus Johannes Adrianus Maria Heijmans, Henk J. A. M. Heijmans, Alexander V. Tuzikov, Centrum voor Wiskunde en Informatica. Department of Operations Research, Statistics and System Theory, 1996 **Symmetry Points of a Convex Set** Alexandre Belloni, Robert M. Freund, 2006 Given a convex body S and a point x in S let sym x S denote the symmetry value of x in S sym x S max t x t x y is in S for every y in S which essentially measures how symmetric S is about the point x and define sym S max sym x S x in S We call x a symmetry point of S if x achieves the above supremum These symmetry measures are all invariant under invertible affine transformation and or change in norm and so are of interest in the study of the geometry of convex sets In this study we demonstrate various properties of sym x S including relations with convex geometry quantities like volume distance and diameter and cross ratio distance When S is polyhedral of the form x Ax **Robust Stability and Convexity** Jacob Kogan, 1995 **Symmetry and Stability in Taylor-Couette Flow** Martin Golubtsky, 1984 **Symmetry Reduction in Convex Optimization** Daniel Brosch.2022 Stability and Duality in Convex Minimization Problems J. L. Joly, Pierre Jean Laurent, University of Wisconsin--Madison. Mathematics Research Center, WISCONSIN UNIV MADISON MATHEMATICS RESEARCH CENTER., 1971 The general relations between the stability of a convex minimiation problem and duality are studied Several problems are considered including spline function problems and approximation problems Author

This book delves into Measures Symmetry Convex Stability Universitext. Measures Symmetry Convex Stability Universitext is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Measures Symmetry Convex Stability Universitext, encompassing both the fundamentals and more intricate discussions.

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