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Takao Oda

# Convex Bodies and Algebraic Geometry

An Introduction to the  
Theory of Toric Varieties



Springer-Verlag

# Convex Bodies And Algebraic Geometry

**Rolf Schneider**



## **Convex Bodies And Algebraic Geometry:**

Convex Bodies and Algebraic Geometry Tadao Oda, 1988 The theory of toric varieties also called torus embeddings describes a fascinating interplay between algebraic geometry and the geometry of convex figures in real affine spaces This book is a unified up to date survey of the various results and interesting applications found since toric varieties were introduced in the early 1970 s It is an updated and corrected English edition of the author s book in Japanese published by Kinokuniya Tokyo in 1985 Toric varieties are here treated as complex analytic spaces Without assuming much prior knowledge of algebraic geometry the author shows how elementary convex figures give rise to interesting complex analytic spaces Easily visualized convex geometry is then used to describe algebraic geometry for these spaces such as line bundles projectivity automorphism groups birational transformations differential forms and Mori s theory Hence this book might serve as an accessible introduction to current algebraic geometry Conversely the algebraic geometry of toric varieties gives new insight into continued fractions as well as their higher dimensional analogues the isoperimetric problem and other questions on convex bodies Relevant results on convex geometry are collected together in the appendix

**Selected Topics in Convex Geometry** Maria Moszynska, 2006-11-24 Examines in detail those topics in convex geometry that are concerned with Euclidean space Enriched by numerous examples illustrations and exercises with a good bibliography and index Requires only a basic knowledge of geometry linear algebra analysis topology and measure theory Can be used for graduates courses or seminars in convex geometry geometric and convex combinatorics and convex analysis and optimization

**Fourier Analysis in Convex Geometry** Alexander Koldobsky, 2014-11-12 The study of the geometry of convex bodies based on information about sections and projections of these bodies has important applications in many areas of mathematics and science In this book a new Fourier analysis approach is discussed The idea is to express certain geometric properties of bodies in terms of Fourier analysis and to use harmonic analysis methods to solve geometric problems One of the results discussed in the book is Ball s theorem establishing the exact upper bound for the dimensional volume of hyperplane sections of the dimensional unit cube it is for each Another is the Busemann Petty problem if and are two convex origin symmetric dimensional bodies and the dimensional volume of each central hyperplane section of is less than the dimensional volume of the corresponding section of is it true that the dimensional volume of is less than the volume of The answer is positive for and negative for The book is suitable for graduate students and researchers interested in geometry harmonic and functional analysis and probability Prerequisites for reading this book include basic real complex and functional analysis

*Geometry and Convexity* Paul J. Kelly, Max L. Weiss, 1979-05 Convex body theory offers important applications in probability and statistics combinatorial mathematics and optimization theory Although this text s setting and central issues are geometric in nature it stresses the interplay of concepts and methods from topology analysis and linear and affine algebra From motivation to definition the authors present concrete examples and theorems that identify convex bodies and surfaces and

establish their basic properties The easy to read treatment employs simple notation and clear complete proofs Introductory chapters establish the basics of metric topology and the structure of Euclidean  $n$  space Subsequent chapters apply this background to the dimension basic structure and general geometry of convex bodies and surfaces Concluding chapters illustrate nonintuitive results to offer students a perspective on the wide range of problems and applications in convex body theory

**Excursions into Combinatorial Geometry** Vladimir Boltyanski, Horst Martini, P.S. Soltan, 1996-11-14 The book deals with the combinatorial geometry of convex bodies in finite dimensional spaces A general introduction to geometric convexity is followed by the investigation of  $d$  convexity and  $H$  convexity and by various applications Recent research is discussed for example the three problems from the combinatorial geometry of convex bodies unsolved in the general case the Szökefalvi Nagy problem the Borsuk problem the Hadwiger covering problem These and related questions are then applied to a new class of convex bodies which is a natural generalization of the class of zonoids the class of belt bodies Finally open research problems are discussed Each section is supplemented by a wide range of exercises and the geometric approach to many topics is illustrated with the help of more than 250 figures

Selected Topics in Convex Geometry Maria Moszynska, 2008-11-01 Examines in detail those topics in convex geometry that are concerned with Euclidean space Enriched by numerous examples illustrations and exercises with a good bibliography and index Requires only a basic knowledge of geometry linear algebra analysis topology and measure theory Can be used for graduates courses or seminars in convex geometry geometric and convex combinatorics and convex analysis and optimization

**Convexity and Its Applications** GRUBER, WILLS, 2013-11-11 This collection of surveys consists in part of extensions of papers presented at the conferences on convexity at the Technische Universität Wien July 1981 and at the Universität Siegen July 1982 and in part of articles written at the invitation of the editors This volume together with the earlier volume Contributions to Geometry edited by Tolke and Wills and published by Birkhäuser in 1979 should give a fairly good account of many of the more important facets of convexity and its applications Besides being an up to date reference work this volume can be used as an advanced treatise on convexity and related fields We sincerely hope that it will inspire future research Fenchel in his paper gives an historical account of convexity showing many important but not so well known facets The articles of Papini and Phelps relate convexity to problems of functional analysis on nearest points nonexpansive maps and the extremal structure of convex sets A bridge to mathematical physics in the sense of Polya and Szegő is provided by the survey of Bandle on isoperimetric inequalities and Bachem's paper illustrates the importance of convexity for optimization The contribution of Coxeter deals with a classical topic in geometry the lines on the cubic surface whereas Leichtweiß shows the close connections between convexity and differential geometry The exhaustive survey of Chalk on point lattices is related to algebraic number theory A topic important for applications in biology geology etc

Handbook of Convex Geometry Bozzano G Luisa, 2014-06-28 Handbook of Convex Geometry Volume A offers a survey of convex geometry and its many ramifications and relations with other areas of

mathematics including convexity geometric inequalities and convex sets The selection first offers information on the history of convexity characterizations of convex sets and mixed volumes Topics include elementary convexity equality in the Aleksandrov Fenchel inequality mixed surface area measures characteristic properties of convex sets in analysis and differential geometry and extensions of the notion of a convex set The text then reviews the standard isoperimetric theorem and stability of geometric inequalities The manuscript takes a look at selected affine isoperimetric inequalities extremum problems for convex discs and polyhedra and rigidity Discussions focus on include infinitesimal and static rigidity related to surfaces isoperimetric problem for convex polyhedral bounds for the volume of a convex polyhedron curvature image inequality Busemann intersection inequality and its relatives and Petty projection inequality The book then tackles geometric algorithms convexity and discrete optimization mathematical programming and convex geometry and the combinatorial aspects of convex polytopes The selection is a valuable source of data for mathematicians and researchers interested in convex geometry

*Geometric Aspects of Functional Analysis* Bo'az Klartag, Emanuel Milman, 2020-07-08 Continuing the theme of the previous volumes these seminar notes reflect general trends in the study of Geometric Aspects of Functional Analysis understood in a broad sense Two classical topics represented are the Concentration of Measure Phenomenon in the Local Theory of Banach Spaces which has recently had triumphs in Random Matrix Theory and the Central Limit Theorem one of the earliest examples of regularity and order in high dimensions Central to the text is the study of the Poincaré and log Sobolev functional inequalities their reverses and other inequalities in which a crucial role is often played by convexity assumptions such as Log Concavity The concept and properties of Entropy form an important subject with Bourgain's slicing problem and its variants drawing much attention Constructions related to Convexity Theory are proposed and revisited as well as inequalities that go beyond the Brunn Minkowski theory One of the major current research directions addressed is the identification of lower dimensional structures with remarkable properties in rather arbitrary high dimensional objects In addition to functional analytic results connections to Computer Science and to Differential Geometry are also discussed

**Convex Polytopes** Branko Grünbaum, 2013-12-01 The appearance of Grünbaum's book *Convex Polytopes* in 1967 was a moment of grace to geometers and combinatorialists The special spirit of the book is very much alive even in those chapters where the book's immense influence made them quickly obsolete Some other chapters promise beautiful unexplored land for future research The appearance of the new edition is going to be another moment of grace Kaiibel Klee and Ziegler were able to update the convex polytope saga in a clear accurate lively and inspired way Gil Kalai The Hebrew University of Jerusalem The original book of Grünbaum has provided the central reference for work in this active area of mathematics for the past 35 years I first consulted this book as a graduate student in 1967 yet even today I am surprised again and again by what I find there It is an amazingly complete reference for work on this subject up to that time and continues to be a major influence on research to this day Louis J Billera Cornell University The original edition of *Convex Polytopes* inspired a whole generation of

grateful workers in polytope theory Without it it is doubtful whether many of the subsequent advances in the subject would have been made The many seeds it sowed have since grown into healthy trees with vigorous branches and luxuriant foliage It is good to see it in print once again Peter McMullen University College London *Geometry - Intuitive, Discrete, and Convex* Imre Bárány,Károly Jr. Böröczky,Gábor Fejes Tóth,Janos Pach,2015-04-09 The present volume is a collection of a dozen survey articles dedicated to the memory of the famous Hungarian geometer L szl Fejes T th on the 99th anniversary of his birth Each article reviews recent progress in an important field in intuitive discrete and convex geometry The mathematical work and perspectives of all editors and most contributors of this volume were deeply influenced by L szl Fejes T th Polytopes Tibor Bisztriczky,Peter McMullen,Rolf Schneider,Asia Ivic Weiss,2012-12-06 The aim of this volume is to reinforce the interaction between the three main branches abstract convex and computational of the theory of polytopes The articles include contributions from many of the leading experts in the field and their topics of concern are expositions of recent results and in depth analyses of the development past and future of the subject The subject matter of the book ranges from algorithms for assignment and transportation problems to the introduction of a geometric theory of polyhedra which need not be convex With polytopes as the main topic of interest there are articles on realizations classifications Eulerian posets polyhedral subdivisions generalized stress the Brunn Minkowski theory asymptotic approximations and the computation of volumes and mixed volumes For researchers in applied and computational convexity convex geometry and discrete geometry at the graduate and postgraduate levels *Convex Bodies: The Brunn-Minkowski Theory* Rolf Schneider,2013-10-31 At the heart of this monograph is the Brunn Minkowski theory which can be used to great effect in studying such ideas as volume and surface area and their generalizations In particular the notions of mixed volume and mixed area measure arise naturally and the fundamental inequalities that are satisfied by mixed volumes are considered here in detail The author presents a comprehensive introduction to convex bodies including full proofs for some deeper theorems The book provides hints and pointers to connections with other fields and an exhaustive reference list This second edition has been considerably expanded to reflect the rapid developments of the past two decades It includes new chapters on valuations on convex bodies on extensions like the  $L_p$  Brunn Minkowski theory and on affine constructions and inequalities There are also many supplements and updates to the original chapters and a substantial expansion of chapter notes and references

**Geometry of Isotropic Convex Bodies** Silouanos Brazitikos,Apostolos Giannopoulos,Petros Valettas,Beatrice-Helen Vritsiou,2014-04-24 The study of high dimensional convex bodies from a geometric and analytic point of view with an emphasis on the dependence of various parameters on the dimension stands at the intersection of classical convex geometry and the local theory of Banach spaces It is also closely linked to many other fields such as probability theory partial differential equations Riemannian geometry harmonic analysis and combinatorics It is now understood that the convexity assumption forces most of the volume of a high dimensional convex body to be concentrated in some canonical way and the

main question is whether under some natural normalization the answer to many fundamental questions should be independent of the dimension The aim of this book is to introduce a number of well known questions regarding the distribution of volume in high dimensional convex bodies which are exactly of this nature among them are the slicing problem the thin shell conjecture and the Kannan Lov sz Simonovits conjecture This book provides a self contained and up to date account of the progress that has been made in the last fifteen years Geometry of Numbers C. G. Lekkerkerker, 2014-05-12 Bibliotheca Mathematica A Series of Monographs on Pure and Applied Mathematics Volume VIII Geometry of Numbers focuses on bodies and lattices in the  $n$  dimensional euclidean space The text first discusses convex bodies and lattice points and the covering constant and inhomogeneous determinant of a set Topics include the inhomogeneous determinant of a set covering constant of a set theorem of Minkowski Hlawka packing of convex bodies successive minima and determinant of a set successive minima of a convex body extremal bodies and polar reciprocal convex bodies The publication ponders on star bodies as well as points of critical lattices on the boundary reducible and irreducible star bodies and reduction of automorphic star bodies The manuscript reviews homogeneous and inhomogeneous  $s$  forms and some methods Discussions focus on asymmetric inequalities inhomogeneous forms in more variables indefinite binary quadratic forms diophantine approximation sums of powers of linear forms spheres and quadratic forms and a method of Blichfeldt and Mordell The text is a dependable reference for researchers and mathematicians interested in bodies and lattices in the  $n$  dimensional euclidean space

**Analytical and Probabilistic Methods in the Geometry of Convex Bodies** Piotr Nayar, Tomasz Tkocz, Artem Zvavitch, Polska Akademia Nauk. Instytut Matematyczny, 2014

**Handbook of Convex Geometry** Peter M. Gruber, Jörg M. Wills, 1993 Manuscripta Mathematica, 1988 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

**Analytic Aspects of Convexity** Gabriele Bianchi, Andrea Colesanti, Paolo Gronchi, 2018-02-28 This book presents the proceedings of the international conference Analytic Aspects in Convexity which was held in Rome in October 2016 It offers a collection of selected articles written by some of the world's leading experts in the field of Convex Geometry on recent developments in this area theory of valuations geometric inequalities affine geometry and curvature measures The book will be of interest to a broad readership from those involved in Convex Geometry to those focusing on Functional Analysis Harmonic Analysis Differential Geometry or PDEs The book is addressed to PhD students and researchers interested in Convex Geometry and its links to analysis



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