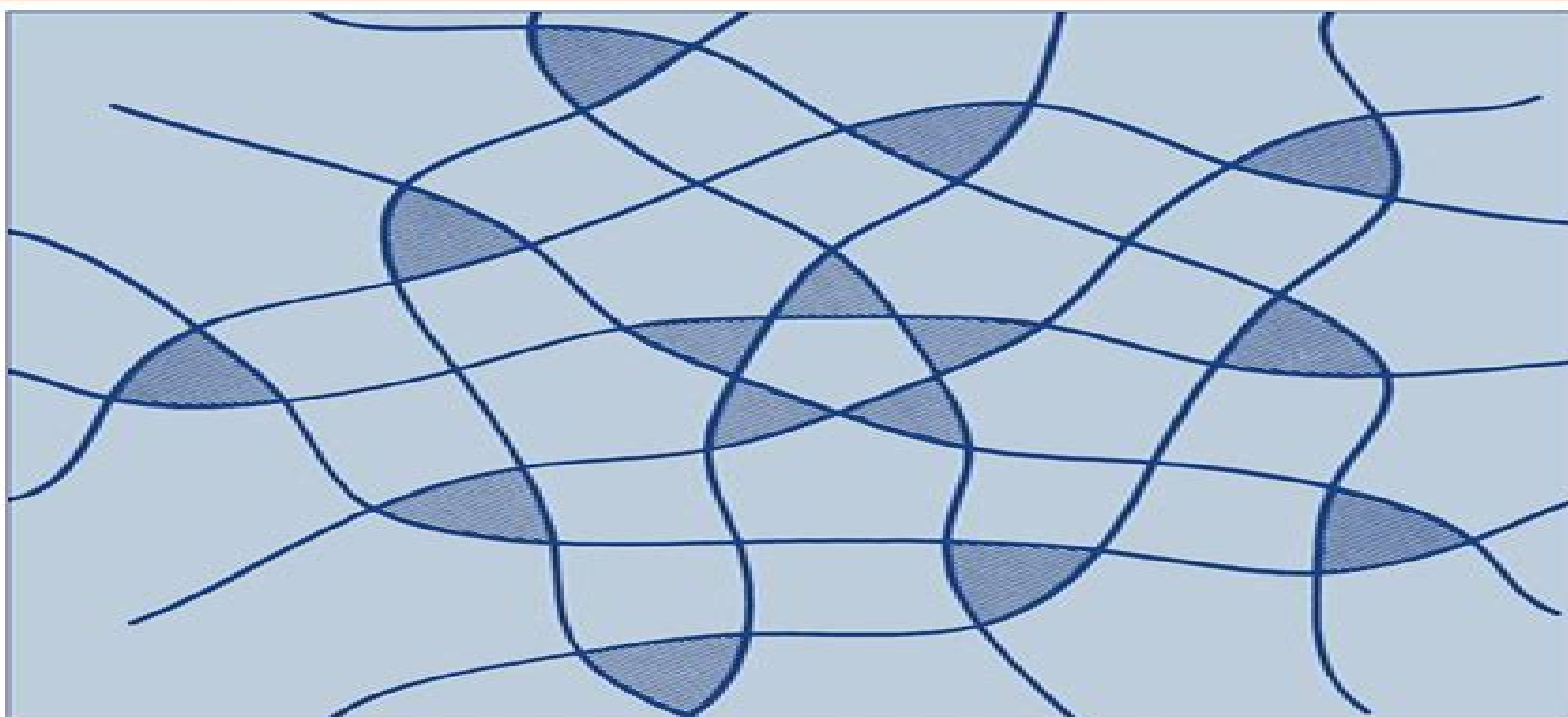# ORIENTED MATROIDS

SECOND EDITION

A. BJÖRNER, M. LAS VERGNAS,
B. STURMFELS, N. WHITE, G. ZIEGLER

Oriented Matroids

Walter Duff Morris

Oriented Matroids:

   Oriented Matroids Anders Björner,1999-11-18 Oriented matroids are a very natural mathematical concept which presents itself in many different guises and which has connections and applications to many different areas These include discrete and computational geometry combinatorics convexity topology algebraic geometry operations research computer science and theoretical chemistry This is the second edition of the first comprehensive accessible account of the subject It is intended for a diverse audience graduate students who wish to learn the subject from scratch researchers in the various fields of application who want to concentrate on certain aspects of the theory specialists who need a thorough reference work and others at academic points in between A list of exercises and open problems ends each chapter For the second edition the authors have expanded the bibliography greatly to ensure that it remains comprehensive and up to date and they have also added an appendix surveying research since the work was first published   *Pattern Recognition on Oriented Matroids* Andrey O. Matveev,2017-09-11 Pattern Recognition on Oriented Matroids covers a range of innovative problems in combinatorics poset and graph theories optimization and number theory that constitute a far reaching extension of the arsenal of committee methods in pattern recognition The groundwork for the modern committee theory was laid in the mid 1960s when it was shown that the familiar notion of solution to a feasible system of linear inequalities has ingenious analogues which can serve as collective solutions to infeasible systems A hierarchy of dialects in the language of mathematics for instance open cones in the context of linear inequality systems regions of hyperplane arrangements and maximal covectors or topes of oriented matroids provides an excellent opportunity to take a fresh look at the infeasible system of homogeneous strict linear inequalities the standard working model for the contradictory two class pattern recognition problem in its geometric setting The universal language of oriented matroid theory considerably simplifies a structural and enumerative analysis of applied aspects of the infeasibility phenomenon The present book is devoted to several selected topics in the emerging theory of pattern recognition on oriented matroids the questions of existence and applicability of matroidal generalizations of committee decision rules and related graph theoretic constructions to oriented matroids with very weak restrictions on their structural properties a study in which in particular interesting subsequences of the Farey sequence appear naturally of the hierarchy of the corresponding tope committees a description of the three tope committees that are the most attractive approximation to the notion of solution to an infeasible system of linear constraints an application of convexity in oriented matroids as well as blocker constructions in combinatorial optimization and in poset theory to enumerative problems on tope committees an attempt to clarify how elementary changes one element reorientations in an oriented matroid affect the family of its tope committees a discrete Fourier analysis of the important family of critical tope committees through rank and distance relations in the tope poset and the tope graph the characterization of a key combinatorial role played by the symmetric cycles in hypercube graphs Contents Oriented Matroids

the Pattern Recognition Problem and Tope Committees Boolean Intervals Dehn Sommerville Type Relations Farey Subsequences Blocking Sets of Set Families and Absolute Blocking Constructions in Posets Committees of Set Families and Relative Blocking Constructions in Posets Layers of Tope Committees Three Tope Committees Halfspaces Convex Sets and Tope Committees Tope Committees and Reorientations of Oriented Matroids Topes and Critical Committees Critical Committees and Distance Signals Symmetric Cycles in the Hypercube Graphs **Oriented Matroids** Laura Anderson,2025-04-30 Oriented matroids appear throughout discrete geometry with applications in algebra topology physics and data analysis This introduction to oriented matroids is intended for graduate students scientists wanting to apply oriented matroids and researchers in pure mathematics The presentation is geometrically motivated and largely self contained and no knowledge of matroid theory is assumed Beginning with geometric motivation grounded in linear algebra the first chapters prove the major cryptomorphisms and the Topological Representation Theorem From there the book uses basic topology to go directly from geometric intuition to rigorous discussion avoiding the need for wider background knowledge Topics include strong and weak maps localizations and extensions the Euclidean property and non Euclidean properties the Universality Theorem convex polytopes and triangulations Themes that run throughout include the interplay between combinatorics geometry and topology and the idea of oriented matroids as analogs to vector spaces over the real numbers and how this analogy plays out topologically Triangulations of Oriented Matroids Francisco Santos,2002 We consider the concept of triangulation of an oriented matroid We provide a definition which generalizes the previous ones by Billera Munson and by Anderson and which specializes to the usual notion of triangulation or simplicial fan in the realizable case Then we study the relation existing between triangulations of an oriented matroid mathcal M and extensions of its dual mathcal M via the so called lifting triangulations We show that this duality behaves particularly well in the class of Lawrence matroid polytopes In particular that the extension space conjecture for realizable oriented matroids is equivalent to the restriction to Lawrence polytopes of the Generalized Baues problem for subdivisions of polytopes We finish by showing examples and a characterization of lifting triangulations **Linear Programming Duality** Achim Bachem,Walter Kern,2012-12-06 This book presents an elementary introduction to the theory of oriented matroids The way oriented matroids are intro duced emphasizes that they are the most general and hence simplest structures for which linear Programming Duality results can be stated and proved The main theme of the book is duality Using Farkas Lemma as the basis the authors start withre sults on polyhedra in Rn and show how to restate the essence of the proofs in terms of sign patterns of oriented ma troids Most of the standard material in Linear Programming is presented in the setting of real space as well as in the more abstract theory of oriented matroids This approach clarifies the theory behind Linear Programming and proofs become simpler The last part of the book deals with the facial structure of polytopes respectively their oriented matroid counterparts It is an introduction to more advanced topics in oriented matroid theory Each chapter contains

suggestions for furt herreading and the references provide an overview of the research in this field **Computational Oriented Matroids** Jürgen Bokowski,2006-05-08 Oriented matroids play the role of matrices in discrete geometry when metrical properties such as angles or distances are neither required nor available Thus they are of great use in such areas as graph theory combinatorial optimization and convex geometry The variety of applications corresponds to the variety of ways they can be defined Each of these definitions corresponds to a differing data structure for an oriented matroid and handling them requires computational support best realised through a functional language Haskell is used here and for the benefit of readers the book includes a primer on it The combination of concrete applications and computation the profusion of illustrations many in colour and the large number of examples and exercises make this an ideal introductory text on the subject It will also be valuable for self study for mathematicians and computer scientists working in discrete and computational geometry **Oriented Matroids** Anders Bjrner, **Purity and Separation for Oriented Matroids** Pavel Galashin,Alexander Postnikov,2023-09-27 View the abstract **Mathematical Software - ICMS 2006** Andres Iglesias,Nobuki Takayama,2006-08-24 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues *Handbook of Discrete and Computational Geometry, Second Edition* Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2004-04-13 While high quality books and journals in this field continue to proliferate none has yet come close to matching the Handbook of Discrete and Computational Geometry which in its first edition quickly became the definitive reference work in its field But with the rapid growth of the discipline and the many advances made over the past seven years it s time to bring this standard setting reference up to date Editors Jacob E Goodman and Joseph O Rourke reassembled their stellar panel of contributors added manymore and together thoroughly revised their work to make the most important results and methods both classic and cutting edge accessible in one convenient volume Now over more then 1500 pages the Handbook of Discrete and Computational Geometry Second Edition once again provides unparalleled authoritative coverage of theory methods and applications Highlights of the Second Edition Thirteen new chapters Five on applications and others on collision detection nearest neighbors in high dimensional spaces curve and surface reconstruction embeddings of finite metric spaces polygonal linkages the discrepancy method and geometric graph theory Thorough revisions of all remaining chapters Extended coverage of computational geometry software now comprising two chapters one on the LEDA and CGAL libraries the other on additional software Two indices An Index of Defined Terms and an Index of Cited Authors Greatly expanded bibliographies **Learning and Geometry: Computational Approaches** David Kueker,Carl Smith,2012-12-06 The field of computational

learning theory arose out of the desire to for mally understand the process of learning As potential applications to artificial intelligence became apparent the new field grew rapidly The learning of geo metric objects became a natural area of study The possibility of using learning techniques to compensate for unsolvability provided an attraction for individ uals with an immediate need to solve such difficult problems Researchers at the Center for Night Vision were interested in solving the problem of interpreting data produced by a variety of sensors Current vision techniques which have a strong geometric component can be used to extract features However these techniques fall short of useful recognition of the sensed objects One potential solution is to incorporate learning techniques into the geometric manipulation of sensor data As a first step toward realizing such a solution the Systems Research Center at the University of Maryland in conjunction with the Center for Night Vision hosted a Workshop on Learning and Geometry in January of 1991 Scholars in both fields came together to learn about each others field and to look for common ground with the ultimate goal of providing a new model of learning from geometrical examples that would be useful in computer vision The papers in the volume are a partial record of that meeting   <u>Advances in Discrete and Computational Geometry</u> Bernard Chazelle,Jacob E. Goodman,Richard Pollack,1999 This volume is a collection of refereed expository and research articles in discrete and computational geometry written by leaders in the field Articles are based on invited talks presented at the AMS IMS SIAM Summer Research Conference Discrete and Computational Geometry Ten Years Later held in 1996 at Mt Holyoke College So Hadley MA Topics addressed range from tilings polyhedra and arrangements to computational topology and visibility problems Included are papers on the interaction between real algebraic geometry and discrete and computational geometry as well as on linear programming and geometric discrepancy theory   *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   **Positive Definiteness and Eigenvalues in Oriented Matroids** Walter Duff Morris,1984

Extension Spaces of Oriented Matroids Bernd Sturmfels,Günter M. Ziegler,1991 Duality of Higher Order Non-Euclidean Property for Oriented Matroids Leandro Junes,2008 *Oriented Matroids and the Linear Complementarity Problem* Walter Duff Morris,1986 **A Class of Topological Oriented Matroids with Some Applications to Non-linear Programming** Douglas Alan Miller,1983 *Face Lattices of Oriented Matroids* Beth Spellman Munson,1981 Separation Theorems for Oriented Matroids Achim Bachem,Alfred Wanka,1985

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