

The background of the cover features several abstract, three-dimensional geometric shapes. These shapes are rendered in shades of blue and grey, with some appearing to be translucent or having a metallic sheen. They are arranged in a way that suggests a complex, interconnected geometric structure. The background is a solid yellow color, which provides a high contrast for the blue shapes and the black text.

Bert Jüttler
Ragni Piene
Editors

Geometric Modeling and Algebraic Geometry

 Springer

Geometric Modeling And Algebraic Geometry

Max K. Agoston



Geometric Modeling And Algebraic Geometry:

Geometric Modeling and Algebraic Geometry Bert Jüttler, Ragni Piene, 2007-12-24 Geometric Modeling and Algebraic Geometry though closely related are traditionally represented by two almost disjoint scientific communities Both fields deal with objects defined by algebraic equations but the objects are studied in different ways In 12 chapters written by leading experts this book presents recent results which rely on the interaction of both fields Some of these results have been obtained from a major European project in geometric modeling

Algebraic Geometry and Geometric Modeling Mohamed Elkadi, 2006 Algebraic Geometry provides an impressive theory targeting the understanding of geometric objects defined algebraically Geometric Modeling uses every day in order to solve practical and difficult problems digital shapes based on algebraic models In this book we have collected articles bridging these two areas The confrontation of the different points of view results in a better analysis of what the key challenges are and how they can be met We focus on the following important classes of problems implicitization classification and intersection The combination of illustrative pictures explicit computations and review articles will help the reader to handle these subjects

Algebraic Geometry and Geometric Modeling Mohamed Elkadi, Bernard Mourrain, Ragni Piene, 2010-11-19 This book spans the distance between algebraic descriptions of geometric objects and the rendering of digital geometric shapes based on algebraic models These contrasting points of view inspire a thorough analysis of the key challenges and how they are met The articles focus on important classes of problems implicitization classification and intersection Combining illustrative graphics computations and review articles this book helps the reader gain a firm practical grasp of these subjects

Topics in Algebraic Geometry and Geometric Modeling Ron Goldman, Rimvydas Krasauskas, 2003 Algebraic geometry and geometric modeling both deal with curves and surfaces generated by polynomial equations Algebraic geometry investigates the theoretical properties of polynomial curves and surfaces geometric modeling uses polynomial piecewise polynomial and rational curves and surfaces to build computer models of mechanical components and assemblies for industrial design and manufacture The NSF sponsored the four day Vilnius Workshop on Algebraic Geometry and Geometric Modeling which brought together some of the top experts in the two research communities to examine a wide range of topics of interest to both fields This volume is an outgrowth of that workshop Included are surveys tutorials and research papers In addition the editors have included a translation of Minding's 1841 paper On the determination of the degree of an equations obtained by elimination which foreshadows the modern application of mixed volumes in algebraic geometry The volume is suitable for mathematicians computer scientists and engineers interested in applications of algebraic geometry to geometric modeling

Computer Graphics and Geometric Modelling Max K. Agoston, 2005-09-05 Possibly the most comprehensive overview of computer graphics as seen in the context of geometric modelling this two volume work covers implementation and theory in a thorough and systematic fashion Computer Graphics and Geometric Modelling Mathematics contains the mathematical background needed for the geometric

modeling topics in computer graphics covered in the first volume This volume begins with material from linear algebra and a discussion of the transformations in affine projective geometry followed by topics from advanced calculus chapters on general topology combinatorial topology algebraic topology differential topology differential geometry and finally algebraic geometry Two important goals throughout were to explain the material thoroughly and to make it self contained This volume by itself would make a good mathematics reference book in particular for practitioners in the field of geometric modelling Due to its broad coverage and emphasis on explanation it could be used as a text for introductory mathematics courses on some of the covered topics such as topology general combinatorial algebraic and differential and geometry differential algebraic

Curves and Surfaces in Geometric Modeling Jean H. Gallier, 2000 *Curves and Surfaces in Geometric Modeling Theory and Algorithms* offers a theoretically unifying understanding of polynomial curves and surfaces as well as an effective approach to implementation that you can apply to your own work as a graduate student scientist or practitioner The focus here is on blossoming the process of converting a polynomial to its polar form as a natural purely geometric explanation of the behavior of curves and surfaces This insight is important for more than just its theoretical elegance the author demonstrates the value of blossoming as a practical algorithmic tool for generating and manipulating curves and surfaces that meet many different criteria You ll learn to use this and other related techniques drawn from affine geometry for computing and adjusting control points deriving the continuity conditions for splines creating subdivision surfaces and more It will be an essential acquisition for readers in many different areas including computer graphics and animation robotics virtual reality geometric modeling and design medical imaging computer vision and motion planning

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Computer Graphics and Geometric Modelling Max K. Agoston, 2005-11-14 Possibly the most comprehensive overview of computer graphics as seen in the context of geometric modelling this two volume work covers implementation and theory in a thorough and systematic fashion *Computer Graphics and Geometric Modelling Implementation and Algorithms* covers the computer graphics part of the field of geometric modelling and includes all the standard computer graphics topics The first part deals with basic concepts and algorithms and the main steps involved in displaying photorealistic images on a computer The second part covers curves and surfaces and a number of more advanced geometric modelling topics including intersection algorithms distance algorithms polygonizing curves and surfaces trimmed surfaces implicit curves and surfaces offset curves and surfaces curvature geodesics blending etc The third part touches on some aspects of computational geometry and a few special topics such as interval analysis and finite element methods The volume includes two companion programs

Algebraic Methods for Geometric Modeling Julien Wintz, 2008 The two fields of algebraic geometry and algorithmic geometry though closely related are traditionally represented by almost disjoint communities Both fields deal with curves and surfaces but objects are represented in different ways While algebraic geometry defines objects by the mean of equations algorithmic geometry use

to work with linear models The current trend is to apply algorithmic geometry algorithms to non linear models such as those found in algebraic geometry Such algorithms play an important role in many practical fields such as Computer Aided Geometric Design Their use raises important questions when it comes to developing software featuring such models First the manipulation of their representation implies the use of symbolic numeric computations which still represent one major research interest Second their visualization and manipulation is not straightforward because of their abstract nature The first part of this thesis covers the use of algebraic methods in geometric modeling with an emphasis on topology intersection and self intersection for arrangement computation of semi algebraic sets with either implicit or parametric representation Special care is given to the genericity of the algorithms which can be specified whatever the context and then specialized to meet specific representation requirements The second part of this thesis presents a prototype of an algebraic geometric modeling environment which aim is to provide a generic yet efficient way to model with algebraic geometric objects such as implicit or parametric curves or surfaces both from a user and developer point of view by using symbolic numeric computational libraries as a backend for the manipulation of the polynomials defining the geometric objects

Computer Graphics and Geometric Modeling: Mathematics Max K Agoston,2004 **ACM SIGGRAPH 88: Computational algebraic geometry and geometric modeling** ,1988 **Computer Graphics and Geometric Modelling** Max K. Agoston,2005-02 The second book of a two volume work in which the author presents an overview of computer graphics as seen in the context of geometric modeling and the mathematics required to understand the subject Geometric Modelling Gerald Farin,H. Hagen,H. Noltemeier,W. Knödel,2012-12-06 In this volume experts from university and industry are presenting new technologies for solving industrial problems as well as important and practicable impulses for new research The following topics are treated solid modelling geometry processing feature modelling product modelling surfaces over arbitrary topologies blending methods scattered data algorithms smooting and fairing algorithms NURBS 21 articles are giving a state of the art survey of the relevant problems and issues in the rapidly growing area of geometric modelling *Computer Graphics and Geometric Modeling: Mathematics* Max K. Agoston,2004 *Using Algebraic Geometry* David A Cox,John Little,Donal O'Shea,2005-03-17 The discovery of new algorithms for dealing with polynomial equations and their implementation on fast inexpensive computers has revolutionized algebraic geometry and led to exciting new applications in the field This book details many uses of algebraic geometry and highlights recent applications of Grobner bases and resultants This edition contains two new sections a new chapter updated references and many minor improvements throughout *Computer Graphics and Geometric Modeling* ,2005 Geometric Modeling Michael E. Mortenson,2006 Completely updated to include the most recent developments in the field the third edition like the two previous editions emphasizes clarity and thoroughness in the mathematical development of its subjects It is written in a style that is free of jargon of special applications while integrating the three important functions of geometric modeling to represent elementary

forms curves surfaces and solids to shape and assemble these into complex forms and to determine geometric properties and relationships With hundreds of illustrations this unique book appeals to the readers visual and intuitive skills in a way that makes it easier to understand its more abstract concepts Upper division and graduate students teachers and professionals studying teaching or practicing geometric modeling 3D modeling computational geometry computer graphics applications animation CAD CAM and related subjects will find this to be a very valuable reference

Nonlinear Computational Geometry Ioannis Z. Emiris, Frank Sottile, Thorsten Theobald, 2009-10-28 An original motivation for algebraic geometry was to understand curves and surfaces in three dimensions Recent theoretical and technological advances in areas such as robotics computer vision computer aided geometric design and molecular biology together with the increased availability of computational resources have brought these original questions once more into the forefront of research One particular challenge is to combine applicable methods from algebraic geometry with proven techniques from piecewise linear computational geometry such as Voronoi diagrams and hyperplane arrangements to develop tools for treating curved objects These research efforts may be summarized under the term nonlinear computational geometry This volume grew out of an IMA workshop on Nonlinear Computational Geometry in May June 2007 organized by I Z Emiris R Goldman F Sottile T Theobald which gathered leading experts in this emerging field The research and expository articles in the volume are intended to provide an overview of nonlinear computational geometry Since the topic involves computational geometry algebraic geometry and geometric modeling the volume has contributions from all of these areas By addressing a broad range of issues from purely theoretical and algorithmic problems to implementation and practical applications this volume conveys the spirit of the IMA workshop

Homotopy Theory: Relations with Algebraic Geometry, Group Cohomology, and Algebraic K-Theory Paul Gregory Goerss, Stewart Priddy, 2004 As part of its series of Emphasis Years in Mathematics Northwestern University hosted an International Conference on Algebraic Topology The purpose of the conference was to develop new connections between homotopy theory and other areas of mathematics This proceedings volume grew out of that event Topics discussed include algebraic geometry cohomology of groups algebraic K theory and \mathbb{A}^1 homotopy theory Among the contributors to the volume were Alejandro Adem Ralph L Cohen Jean Louis Loday and many others The book is suitable for graduate students and research mathematicians interested in homotopy theory and its relationship to other areas of mathematics

Future Vision and Trends on Shapes, Geometry and Algebra Raffaele Amicis, Giuseppe Conti, 2014-07-31

Applications of Polynomial Systems David A. Cox, 2020-03-02 Systems of polynomial equations can be used to model an astonishing variety of phenomena This book explores the geometry and algebra of such systems and includes numerous applications The book begins with elimination theory from Newton to the twenty first century and then discusses the interaction between algebraic geometry and numerical computations a subject now called numerical algebraic geometry The final three chapters discuss applications to geometric modeling rigidity theory

and chemical reaction networks in detail Each chapter ends with a section written by a leading expert Examples in the book include oil wells HIV infection phylogenetic models four bar mechanisms border rank font design Stewart Gough platforms rigidity of edge graphs Gaussian graphical models geometric constraint systems and enzymatic cascades The reader will encounter geometric objects such as Bziers patches Cayley Menger varieties and toric varieties and algebraic objects such as resultants Rees algebras approximation complexes matroids and toric ideals Two important subthemes that appear in multiple chapters are toric varieties and algebraic statistics The book also discusses the history of elimination theory including its near elimination in the middle of the twentieth century The main goal is to inspire the reader to learn about the topics covered in the book With this in mind the book has an extensive bibliography containing over 350 books and papers

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