

Mathematical Aspects of Geometric Modeling

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Fred Brauer, Carlos Castillo-Chavez



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Mathematical Aspects of Geometric Modeling Charles A. Micchelli, 1995-01-01 This monograph examines in detail certain concepts that are useful for the modeling of curves and surfaces and emphasizes the mathematical theory that underlies these ideas The two principal themes of the text are the use of piecewise polynomial representation this theme appears in one form or another in every chapter and iterative refinement also called subdivision Here simple iterative geometric algorithms produce in the limit curves with complex analytic structure In the first three chapters the de Casteljau subdivision for Bernstein Bezier curves is used to introduce matrix subdivision and the Lane Riesenfeld algorithm for computing cardinal splines is tied into stationary subdivision This ultimately leads to the construction of prewavelets of compact support The remainder of the book deals with concepts of visual smoothness of curves along with the intriguing idea of generating smooth multivariate piecewise polynomials as volumes of slices of polyhedra The final chapter contains an evaluation of polynomials by finite recursive algorithms Each chapter contains introductory material as well as more advanced results

Geometric Modeling Michael E. Mortenson, 1997-02-05 A comprehensive up to date presentation of the indispensable core concepts of geometric modeling Now completely updated to include the most recent developments in the field *Geometric Modeling Second Edition* presents a comprehensive discussion of the core concepts of this subject It describes and compares all the important mathematical methods for modeling curves surfaces and solids and shows how to transform and assemble these elements into complex models Written in a style free of the jargon of special applications this unique book focuses on the essence of geometric modeling and treats it as a discipline in its own right It integrates the three important functions of geometric modeling to represent elementary forms i e curves surfaces and solids to shape and assemble these into more complex forms and to determine concomitant derivative geometric elements i e intersections offsets and fillets With more than 300 illustrations *Geometric Modeling Second Edition* appeals to the reader s visual and intuitive skills in a way that makes it easier to understand its more abstract concepts An extensive bibliography lists many supporting works directing the reader to more specialized treatments of this subject *Geometric Modeling Second Edition* serves as an invaluable guide to computer graphics and CAD CAM specialists applications designers scientific programmers teachers and students

Designing Fair Curves and Surfaces Nickolas S. Sapidis, 1994-01-01 The authors define fairness mathematically demonstrate how newly developed curve and surface schemes guarantee fairness and assist the user in identifying and removing shape aberrations in a surface model without destroying the principal shape characteristics of the model A valuable resource for engineers working in CAD CAM or computer aided engineering

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

Advanced Methods for Geometric Modeling and Numerical Simulation Carlotta Giannelli, Hendrik Speleers, 2019-09-18 This book gathers selected contributions presented at the INdAM Workshop DREAMS held in Rome Italy on January 22-26 2018 Addressing cutting edge research topics and advances in computer aided geometric design and isogeometric analysis it covers distinguishing curve surface constructions and spline models with a special focus on emerging adaptive spline constructions fundamental spline theory and related algorithms as well as various aspects of isogeometric methods e g efficient quadrature rules and spectral analysis for isogeometric B spline discretizations Applications in finite element and boundary element methods are also discussed Given its scope the book will be of interest to both researchers and graduate students working in these areas

Mathematical Models for Communicable Diseases Fred Brauer, Carlos Castillo-Chavez, 2013-02-07 A self contained and comprehensive guide to the mathematical modeling of disease transmission appropriate for graduate students

Geometric Modeling: Theory and Practice Wolfgang Straßer, Reinhard Klein, Rene Rau, 2012-12-06 The Blaubeuren Conference Theory and Practice of Geometric Modeling has become a meeting place for leading experts from industrial and academic research institutions CAD system developers and experienced users to exchange new ideas and to discuss new concepts and future directions in geometric modeling The relaxed and calm atmosphere of the Heinrich Fabri Institute in Blaubeuren provides the appropriate environment for profound and engaged discussions that are not equally possible on other occasions Real problems from current industrial projects as well as theoretical issues are addressed on a high scientific level This book is the result of the lectures and discussions during the conference which took place from October 14th to 18th 1996 The contents is structured in 4 parts Mathematical Tools Representations Systems Automated Assembly The editors express their sincere appreciation to the contributing authors and to the members of the program committee for their cooperation the careful reviewing and their active participation that made the conference and this book a success

Spline Models for Observational Data Grace Wahba, 1990-01-01 This book serves well as an introduction into the more theoretical aspects of the use of spline models It develops a theory and practice for the estimation of functions from noisy data on functionals The simplest example is the estimation of a smooth curve given noisy observations on a finite number of its values The estimate is a polynomial smoothing spline By placing this smoothing problem in the setting of reproducing kernel Hilbert spaces a theory is developed which includes univariate smoothing splines thin plate splines in d dimensions splines on the sphere additive splines and interaction splines in a single framework A straightforward generalization allows the theory to encompass the very important area of Tikhonov regularization methods for ill posed inverse problems Convergence properties data based smoothing parameter selection confidence intervals and numerical methods are established which are appropriate to a wide variety of problems which fall within this framework Methods for including side conditions and other prior information in solving ill posed inverse

problems are included Data which involves samples of random variables with Gaussian Poisson binomial and other distributions are treated in a unified optimization context Experimental design questions i e which functionals should be observed are studied in a general context Extensions to distributed parameter system identification problems are made by considering implicitly defined functionals

Computer Graphics and Geometric Modelling Max K. Agoston, 2005-01-04 Possibly the most comprehensive overview of computer graphics as seen in the context of geometric modeling this two volume work covers implementation and theory in a thorough and systematic fashion It covers the computer graphics part of the field of geometric modeling and includes all the standard computer graphics topics The CD ROM features two companion programs

Geometric Modeling Gerald E. Farin, Society for Industrial and Applied Mathematics, 1987

Geometric Modeling: Theory and Practice Wolfgang Strasser, Reinhard Klein, Rene Rau, 1997-10 The state of the art of geometric modeling is described and discussed in this volume based on the international conference held in Blaubeuren Germany in October 1996 The contributions cover the most relevant topics in the field at an advanced level and are authored by leading experts from universities CAD system vendors and users of geometric modelers The book is organized into parts dealing with mathematical tools for geometric modeling including variational design particle systems and interpolation and approximation methods representations in solid modeling and conversion problems requirements to be met by a modeler for the automotive industry and applications like automated assembly The readability and clarity of the text is supported by fine illustrations

Mathematics and CAD Y. Gardan, 2012-12-06 The use of computer aided design CAD systems always involves the introduction of mathematical concepts It is important therefore for any systems designer to have a good grasp of the mathematical bases used in CAD The choice of mathematical models in a system also has an effect on the overall quality although this effect may not always be visible to the final user Depending on whether Bezier or B spline functions are used for curves and surfaces for example the final user even if not a computer scientist will notice a difference If for example one of the control points is modified by the user in a Bezier type representation the curve or surface will tend to be modified overall but in a B spline representation the curve or surface will tend to be modified close to the point and there only More possibly harmful however is the effect of the mathematical model which has a number of properties invisible and unknown to the final user In every case a model must be chosen with it is hoped the most appropriate characteristics and limits for the task in hand

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 **Geometric Modelling** Fumihiko Kimura,2013-06-29 Geometric modelling has been an important and interesting subject for many years from the purely mathematical and computer science viewpoint and also from the standpoint of engineering and various other applications such as CAD CAM entertainment animation and multimedia This book focuses on the interaction between the theoretical foundation of geometric modelling and practical applications in CAD and related areas Geometric Modelling Theoretical and Computational Basis towards Advanced CAD Applications starts with two position papers discussing basic computational theory and practical system solutions The well organized seven review papers give a systematic overview of the current situation and deep insight for future research and development directions towards the reality of shape representation and processing They discuss various aspects of important issues such as geometric computation for space search and shape generation parametric modelling feature modelling user interface for geometric modelling geometric modelling for the Next Generation CAD and geometric shape standard Other papers discuss features and new research directions in geometric modelling solid modeling free form surface modeling intersection calculation mesh modeling and reverse engineering They cover a wide range of geometric modelling issues to show the problem scope and the technological importance Researchers interested in the current status of geometric modelling research and developments will find this volume to be an essential reference RAIRO, Mathematical modelling and numerical analysis ,1998 *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 **Algebraic**

Geometry and Geometric Modeling Mohamed Elkadi,Bernard Mourrain,Ragni Piene,2006-11-02 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 3-D Modeling Andreas Hartwig, 1996-08-06 Written for researchers and developers of three dimensional modeling programs this book examines the variety of existing systems while investigating the practical limitations of available software From the table of contents Polyhedra Boundary Models A Small Language Modeler The Algebraic Model Computation of Algebraic Manifolds Topol

Geometric Modeling Wolfgang Strasser, Reinhard Klein, Rene Rau, 1997-10-01

Computer Graphics through Key Mathematics Huw Jones, 2012-12-06

Computer Graphics through Key Mathematics introduces the mathematics that support computer graphics on a need to know basis Its approach means you don t have to do advanced mathematical manipulation in order to understand the capabilities scope and limitations of the computer graphics systems that create impressive images The book is written in a clear easy to understand way and is aimed at all those who have missed out on an extended mathematical education but who are studying or working in areas where computer graphics or 3D design plays an vital part All those who have no formal training but who want to understand the foundations of computer graphics systems should read this book as should mathematicians who want to understand how their subject is used in computer image synthesis

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Table of Contents Mathematical Aspects Of Geometric Modeling

1. Understanding the eBook Mathematical Aspects Of Geometric Modeling
 - The Rise of Digital Reading Mathematical Aspects Of Geometric Modeling
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematical Aspects Of Geometric Modeling
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematical Aspects Of Geometric Modeling
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematical Aspects Of Geometric Modeling
 - Personalized Recommendations
 - Mathematical Aspects Of Geometric Modeling User Reviews and Ratings
 - Mathematical Aspects Of Geometric Modeling and Bestseller Lists
5. Accessing Mathematical Aspects Of Geometric Modeling Free and Paid eBooks
 - Mathematical Aspects Of Geometric Modeling Public Domain eBooks
 - Mathematical Aspects Of Geometric Modeling eBook Subscription Services
 - Mathematical Aspects Of Geometric Modeling Budget-Friendly Options

6. Navigating Mathematical Aspects Of Geometric Modeling eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematical Aspects Of Geometric Modeling Compatibility with Devices
 - Mathematical Aspects Of Geometric Modeling Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematical Aspects Of Geometric Modeling
 - Highlighting and Note-Taking Mathematical Aspects Of Geometric Modeling
 - Interactive Elements Mathematical Aspects Of Geometric Modeling
8. Staying Engaged with Mathematical Aspects Of Geometric Modeling
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematical Aspects Of Geometric Modeling
9. Balancing eBooks and Physical Books Mathematical Aspects Of Geometric Modeling
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematical Aspects Of Geometric Modeling
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematical Aspects Of Geometric Modeling
 - Setting Reading Goals Mathematical Aspects Of Geometric Modeling
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematical Aspects Of Geometric Modeling
 - Fact-Checking eBook Content of Mathematical Aspects Of Geometric Modeling
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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