



curves and surfaces in
geometric modeling

THEORY AND ALGORITHMS

JEAN GALLIER



Curves And Surfaces In Geometric Modeling Theory And Algorithms

Gerald E. Farin



Curves And Surfaces In Geometric Modeling Theory And Algorithms:

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 BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

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

MEL Scripting for Maya Animators Mark R. Wilkins, Chris Kazmier, 2003 Animators artists game developers and technical directors can master Maya s fundamentals then learn how to automate tasks personalize user interfaces build custom tools and solve problems by becoming an expert in the MEL scripting language all with no programming experience

Complete Maya Programming David Gould, 2003-01-07 Learning Maya the world s leading 3D animation and effects package is a challenge especially for those who want to master Maya s versatile programming features in addition to its built in tools Finally here is a practical step by step guide that shows how to use Maya to its fullest potential beginning with the basics Readers of Complete Maya Programming will first gain a thorough understanding of Maya s inner workings and then learn how to customize and extend Maya with scripts and plugins that take control and productivity to new levels Users new to programming can apply Maya s easy scripting language MEL Maya Embedded Language while more advanced users can work with the C API Application Programming Interface Both a

fundamental tutorial for Maya beginners and a solid reference for experienced developers Complete Maya Programming is every user s guide to Maya mastery Provides a multitude of real world examples illustrating applications of Maya programming Demonstrates how to use MEL to control Maya customize its interface automate procedures and more Details how to use the C API to modify Maya functionality and develop tools and features to meet any need Explains when to use MEL when to use the C API and how to use them together Ideal for technical directors developers or anyone wishing to master Maya Provides a storehouse of MEL scripts and C source code glossary and list of resources available at www.davidgould.com

Real-Time Shader Programming Ron Fosner,2003-01-10 Now that PC users have entered the realm of programmable hardware graphics programmers can create 3D images and animations comparable to those produced by RenderMan s procedural programs but in real time Here is a book that will bring this cutting edge technology to your computer Beginning with the mathematical basics of vertex and pixel shaders and building to detailed accounts of programmable shader operations Real Time Shader Programming provides the foundation and techniques necessary for replicating popular cinema style 3D graphics as well as creating your own real time procedural shaders A compelling writing style color illustrations throughout and scores of online resources make Real Time Shader Programming an indispensable tutorial reference for the game developer graphics programmer game artist or visualization programmer to create countless real time 3D effects Contains a complete reference of the low level shader language for both DirectX 8 and DirectX 9 Provides an interactive shader demonstration tool RenderMonkey™ for testing and experimenting Maintains an updated version of the detailed shader reference section at www.directx.com Teaches the latest shader programming techniques for high performance real time 3D graphics

Understanding Virtual Reality William R. Sherman,Alan B. Craig,2003 Of interest to developers of virtual reality applications and others interested in potential uses for virtual reality this book presents a selection of useful VR applications and gives readers guidance on how VR might be applied

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

Implicit Curves and Surfaces: Mathematics, Data Structures and Algorithms Abel Gomes,Irina Voiculescu,Joaquim Jorge,Brian Wyvill,Callum Galbraith,2009-05-12 Implicit objects have gained increasing importance in geometric modeling visualisation animation and computer graphics because their geometric properties provide a good alternative to traditional parametric objects This book presents the mathematics computational methods and data structures as well as the algorithms needed to render implicit curves and surfaces and shows how implicit objects can easily describe smooth intricate and articulatable shapes and hence why they are being increasingly used in graphical applications Divided into two parts the first introduces the mathematics of implicit curves and surfaces as well as the data structures suited to store their sampled or discrete approximations and the second deals with different computational methods for sampling implicit curves and surfaces with particular reference to how these are applied to functions in 2D and 3D spaces

Mathematical Aspects of Geometric Modeling Charles A.

Micchelli,1995-01-01 Examines concepts that are useful for the modeling of curves and surfaces and emphasizes the mathematical theory that underlies them *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 **Theory and Practice of Geometric Modeling** Wolfgang Strasser,Hans-Peter Seidel,1989-10-10 This book originates from the lectures given at the international conference Theory and Practice of Geometric Modeling Blaubeuren FRG October 3 7 1988 that brought together leading experts from universities system developers and system users to discuss new concepts and future trends in geometric modeling The book covers a variety of topics on an advanced level and is organized as follows Part A contains new algorithms and techniques for modeling objects that are bounded by free form surfaces Part B focuses on surface surface intersections new types of blending surfaces and speed ups for ray tracing Part C contains some new geometric tools Part D discusses different representation schemes in solid modeling conversions between these different schemes and some applications Part E covers some issues of product modeling automatic tolerancing high level specification of solid models constraints features and the need for better user interfaces **Curves and Surfaces for CAGD** Gerald E. Farin,2002 Preface Chapter 1 P B ezier How a Simple System Was Born Chapter 2 Introductory Material Chapter 3 Linear Interpolation Chapter 4 The de Casteljaou Algorithm Chapter 5 The Bernstein Form of a B ezier Curve Chapter 6 B ezier Curve Topics Chapter 7 Polynomial Curve Constructions Chapter 8 B Spline Curves Chapter 9 Constructing Spline Curves Chapter 10 W Boehm Differential Geometry I Chapter 11 Geometric Continuity Chapter 12 ConicSections Chapter 13 Rational B ezier and B Spline Curves Chapter 14 Tensor Product Patches Chapter 15 Constructing Polynomial Patches Chapter 16 Composite Surfaces Chapter 17 B ezier Triangles Chapter 18 Practical Aspects of B ezier Triangles Chapter 19 W Boehm Differential Geometry II Chapter 20 GeometricContinuityforSurfaces Chapter 21 Surfaces with Arbitrary Topology Chapter 22 Coons Patches Chapter 23 Shape Chapter 24 Evaluation of Some Methods Appendix A Quick Reference of Curve *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 *Mathematical Reviews* ,2005 **Implicit Curves and Surfaces: Mathematics, Data**

Structures and Algorithms Abel Gomes, Irina Voiculescu, Joaquim Jorge, Brian Wyvill, Callum Galbraith, 2009-05-15 Implicit objects have gained increasing importance in geometric modeling visualisation animation and computer graphics because their geometric properties provide a good alternative to traditional parametric objects This book presents the mathematics computational methods and data structures as well as the algorithms needed to render implicit curves and surfaces and shows how implicit objects can easily describe smooth intricate and articulatable shapes and hence why they are being increasingly used in graphical applications Divided into two parts the first introduces the mathematics of implicit curves and surfaces as well as the data structures suited to store their sampled or discrete approximations and the second deals with different computational methods for sampling implicit curves and surfaces with particular reference to how these are applied to functions in 2D and 3D spaces

Curves and Surfaces in CAGD '89 Robert E. Barnhill, Wolfgang Boehm, Josef Hoschek, 1990 The mathematical foundation of free form surface representations and constructions is an emerging field covering many interesting research problems and numerous important applications This book contains selected presentations from the CAGD Conference at Oberwolfach with new developments of mathematical methods and efficient algorithms for the representation of curves and surfaces The contributions focus on the following topics rational splines scattered data interpolation multivariate splines interpolating with geometric constraints algorithms for graphic representations

Geometric Modeling Hans Hagen, Dieter Roller, 2012-12-06 This book is based on lectures presented at an international workshop on geometric modeling held at Hewlett Packard GmbH in Boblingen FRG in June 1990 International experts from academia and industry were selected to speak on the most interesting topics in geometric modeling The resulting papers published in this volume give a state of the art survey of the relevant problems and issues The following topics are discussed Methods for constructing surfaces on surfaces four different solutions to the multidimensional problem of constructing an interpolant from surface data are provided Surfaces in solid modeling current results on the implementation of free form solids in three well established solid models are reviewed Box splines and applications an introduction to box spline methods for the representation of surfaces is given Basic properties of box splines are derived and refinement and evaluation methods for box splines are presented in detail Shape preserving properties the construction of non rectangular box spline surfaces applications to surface modeling and imbedding problems are discussed Advanced computer graphics techniques for volume visualization the steps to be executed in the visualization process of volume data are described and tools are discussed that assist in handling this data Rational B splines an introduction to the representation of curves and surfaces using rational B splines is given together with a critical evaluation of their potential for industrial application

Geometric Modelling Gerald E. Farin, Hans Hagen, Hartmut Noltemeier, Walter Knödel, 1993 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 **Proceedings of the 35th Annual ACM Symposium on the Theory of Computing** ,2003 **Curves and Surfaces in Computer Vision and Graphics III** Joseph D. Warren,1992

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