COMPUTATIONAL GEOMETRY
Curve and Surface Modeling

SU BU-QING
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Computational Geometry Curve And Surface Modeling

Boon Huat Lim

Computational Geometry Curve And Surface Modeling:

Computational Geometry--curve and Surface Modeling Buqing Su,Dingyuan Liu,1989-01-01 *Computational Geometry* Su Bu-qing,Liu Ding-yuan,2014-05-10 Computational Geometry Curve and Surface Modeling provides information pertinent to the fundamental aspects of computational geometry This book discusses the geometric properties of parametric polynomial curves by using the theory of affine invariants for algebraic curves Organized into eight chapters this book begins with an overview of the objects studies in computational geometry namely surfaces and curves This text then explores the developments in the theory and application of spline functions which began with cubic spline functions Other chapters consider the mechanical background of the cubic spline functions which is the wooden spline with small deflection This book discusses as well that in mathematical lofting the information of a geometric shape is given by a set of data points while in geometric design other ways of representations are available The final chapter deals with the concepts in the theory of algebraic curves This book is a valuable resource for mathematicians *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

Computational Geometry: Curve and Surface Modeling. Translation Of: Chi Suan Chi Ho Bu-qing Su,1989

Geometric Modeling: Techniques, Applications, Systems and Tools Muhammad Sarfraz,2013-03-09 Computer Aided techniques Applications Systems and tools for Geometric Modeling are extremely useful in a number of academic and industrial settings Specifically Computer Aided Geometric Modeling CAGM plays a significant role in the construction of signing and manufacturing of various objects In addition to its cri cal importance in the traditional fields of automobile and aircraft manufacturing shipbuilding and general product design more cently the CAGM methods have also proven to be indispensable in a variety of modern industries including computer vision robotics medical imaging visualization and even media This book aims to provide a valuable source which focuses on terdisciplinary methods and affiliate research in the area It aims to provide the user community with a variety of Geometric Modeling techniques Applications systems and tools

necessary for various real life problems in the areas such as Font Design Medical Visualization Scientific Data Visualization Archaeology Toon Rendering Virtual Reality Body Simulation It also aims to collect and disseminate information in various dis plines including Curve and Surface Fitting Geometric Algorithms Scientific Visualization Shape Abstraction and Modeling Intelligent CAD Systems Computational Geometry Solid Modeling v Shape Analysis and Description Industrial Applications The major goal of this book is to stimulate views and provide a source where researchers and practitioners can find the latest dev opments in the field of Geometric Modeling **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 **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 **Optimal Curve and Surface Modeling System for the Computer Assisted Inspection Environment** Boon Huat Lim,1995 Handbook of Discrete and Computational Geometry Csaba D. Toth,Joseph O'Rourke,Jacob E. Goodman,2017-11-22 The Handbook of Discrete and Computational Geometry is intended as a reference book fully accessible to nonspecialists as well as specialists covering all major aspects of

both fields The book offers the most important results and methods in discrete and computational geometry to those who use them in their work both in the academic world as researchers in mathematics and computer science and in the professional world as practitioners in fields as diverse as operations research molecular biology and robotics Discrete geometry has contributed significantly to the growth of discrete mathematics in recent years This has been fueled partly by the advent of powerful computers and by the recent explosion of activity in the relatively young field of computational geometry This synthesis between discrete and computational geometry lies at the heart of this Handbook A growing list of application fields includes combinatorial optimization computer aided design computer graphics crystallography data analysis error correcting codes geographic information systems motion planning operations research pattern recognition robotics solid modeling and tomography **Geometric Modelling** Stefanie Hahmann,2004-06-02 In 19 articles presented by leading experts in the field of geometric modelling the state of the art on representing modeling and analyzing curves surfaces as well as other 3 dimensional geometry is given The range of applicationsinclude CAD CAM systems computer graphics scientific visualization virtual reality simulation and medical imaging The content of this book is based on selected lectures given at a workshop held at IBFI Schloss Dagstuhl Germany Topics treated are curve and surface modelling non manifold modelling in CAD multiresolution analysis of complex geometric models surface reconstruction variational design computational geometry of curves and surfaces 3D meshing geometric modelling for scientific visualization geometric models for biomedical applications **Uncertainty in Geometric Computations** Joab Winkler,Mahesan Niranjan,2012-12-06 This book contains the proceedings of the workshop Uncertainty in Geomet ric Computations that was held in Sheffield England July 5 6 2001 A total of 59 delegates from 5 countries in Europe North America and Asia attended the workshop The workshop provided a forum for the discussion of com putational methods for quantifying representing and assessing the effects of uncertainty in geometric computations It was organised around lectures by invited speakers and presentations in poster form from participants Computer simulations and modelling are used frequently in science and engi neering in applications ranging from the understanding of natural and artificial phenomena to the design test and manufacturing stages of production This widespread use necessarily implies that detailed knowledge of the limitations of computer simulations is required In particular the usefulness of a computer simulation is directly dependent on the user s knowledge of the uncertainty in the simulation Although an understanding of the phenomena being modelled is an important requirement of a good computer simulation the model will be plagued by deficiencies if the errors and uncertainties in it are not consid ered when the results are analysed The applications of computer modelling are large and diverse but the workshop focussed on the management of un certainty in three areas Geometric modelling computer vision and computer graphics **Closed Object Boundaries from Scattered Points** Remco Veltkamp,1994-11-30 This monograph is devoted to computational morphology particularly to the construction of a two dimensional or a three dimensional closed object boundary through a set of points in arbitrary

position By applying techniques from computational geometry and CAGD new results are developed in four stages of the construction process a the gamma neighborhood graph for describing the structure of a set of points b an algorithm for constructing a polygonal or polyhedral boundary based on a c the flintstone scheme as a hierarchy for polygonal and polyhedral approximation and localization d and a Bezier triangle based scheme for the construction of a smooth piecewise cubic boundary   Algebra and Analysis Gateway to Modern Technology (AAGMT-2013) K.S. Lakshmi,P.V. Geetha,B. Syamala,2013-03-05 To commemorate the completion of 125 years of the great Mathematician Sri Srinivasa Ramanujan which was also celebrated as National Mathematics Year the Department organised a two day National Seminar titled Algebra and Analysis Gateway to Modern Technology on 29th and 30th of January 2013 The seminar focused on the vital role of Algebra and Analysis in technological development and industry   *Advances in Geometric Modeling and Processing* Bernard Mourrain,Scott Schaefer,Guoliang Xu,2010-06-09 This volume contains the papers presented at 6th Conference on Geometric Modeling and Processing GMP 2010 held in Castro Urdiales Spain during June16 18 2010 GeometricModelingandProcessingisabiannualinternational conference series on geometric modeling simulation and computing Previously GMPhasbeenheldinHongKong 2000 Saitama Japan 2002 Beijing China 2004 Pittsburgh USA 2006 and Hangzhou China 2008 GMP 2010 received a total of 30 submissions that were reviewed by three to four Program Committee members on average While the number of subm sions dropped signi cantly from previous years the quality did not and was still quite high overall Based on the reviews received the committee decided to cept 20 papers for inclusion in the proceedings Additionally extended versions of selected papers were considered for a special issue of Computer Aided sign CAD and Computer Aided Geometric Design CAGD The paper topics spanned a wide variety and include Solutions of transcendental equations Volume parameterization Smooth curves and surfaces Isogeometric analysis Implicit surfaces Computational geometry Many people helped make this conference happen and we are grateful for their help We would especially like to thank the Conference Chair all of the authors who submitted papers the ProgramCommittee members who reviewed the papers and all of the participants at the conference   **Computer-Aided Design, Engineering, and Manufacturing** Cornelius T. Leondes,2000-12-12 In the competitive business arena companies must continually strive to create new and better products faster more efficiently and more cost effectively than their competitors to gain and keep the competitive advantage Computer aided design CAD computer aided engineering CAE and computer aided manufacturing CAM are now the industry standa   **Curves and Surfaces in Computer Vision and Graphics III** Joseph D. Warren,1992   Mathematical Methods for Curves and Surfaces Morten Dæhlen,Tom Lyche,Larry L. Schumaker,1995 An edited selection of papers from the Third International Conference on Mathematical Methods in Computer Aided Geometrical Design held in Ulvik Norway June 1994 It includes 12 invited surveys on topics of current interest along with 38 refereed research papers Among the topics are data fitting interpolation and approximation fairing and shape preservation geometry of curves and

surfaces multivariate splines nonlinear and rational splines radial basis functions and connections with wavelets No index Annotation copyright by Book News Inc Portland OR *Product Modelling for Computer Integrated Design and Manufacture* Michael Pratt,R.D. Sriram,Michael J. Wozny,2016-01-09 This state of the art text explores developments in geometric modeling product modeling and their applications In particular it looks at the means by which product geometry emerges from the conceptual stages of design and the use of geometric reasoning for applications downstream of design including manufacture ands assembly Much existing design research is either totally geometry based or totally non geometric and the interface between the two areas is of intense interest to industry as well as being crucial for the successful development of integrated systems for design and manufacture This interface is currently not well understood and the book makes a significant contribution towards its understanding This book is essential reading for technical managers and research and development engineers *Computational Geometry and Computer-Aided Design* ,1985 *Surface Modeling for CAD/CAM* Byoung K. Choi,1991 Curved object manufacturing has become an important subject in modern industry as more varieties of industrial products are being designed with sculptured surfaces Known as CAMM computer aided modeling machining the subject is rapidly becoming one of the most critical issues in CAD CAM Up till now there has been a gap between the theory in CAGD computer aided geometric design and the practices in CAMM The aim of this volume is to fill the gap by presenting a comprehensive coverage of practical solutions for engineers while at the same time providing problems for researchers The main focus of the work is on the approach to and strategy for solving engineering problems A sound understanding of the structure or domain of the problem as well as available techniques or tools is provided in each case with the main emphasis being on descriptive shape models The broad mathematical principles of CAGD are covered in addition to some details of practical implementation The book is self contained in that an undergraduate level of algebraic calculus is sufficient to follow the discussions

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