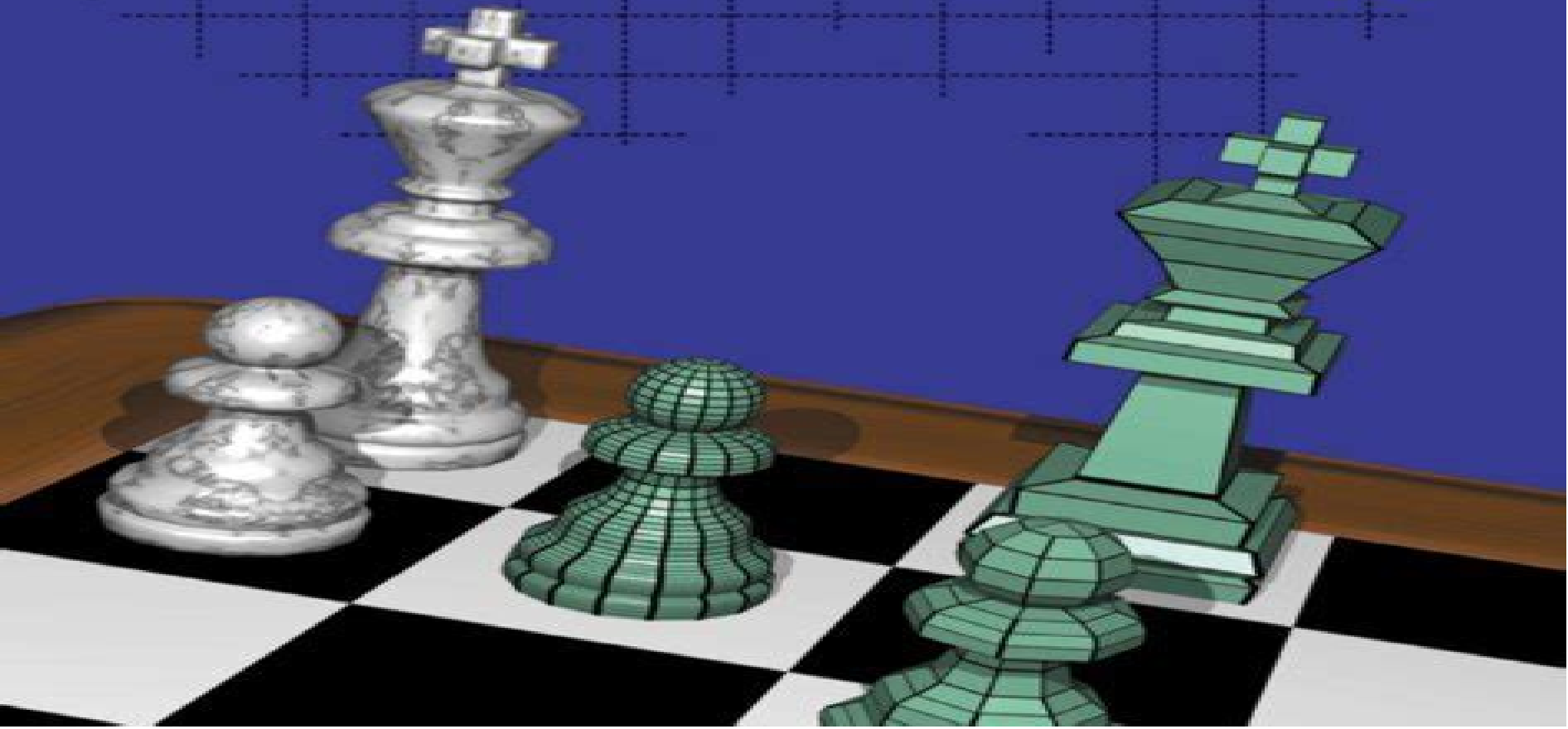


Joe Warren
Henrik Weimer

Subdivision Methods for Geometric Design



Subdivision Methods For Geometric Design A Constructive Approach

David Gould



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Subdivision Methods for Geometric Design Joe Warren, Henrik Weimer, 2001-11-01 Subdivision Methods for Geometric Design provides computer graphics students and designers with a comprehensive guide to subdivision methods including the background information required to grasp underlying concepts techniques for manipulating subdivision algorithms to achieve specific effects and a wide array of digital resources on a dynamic companion Web site Subdivision Methods promises to be a groundbreaking book important for both advanced students and working professionals in the field of computer graphics The only book devoted exclusively to subdivision techniques Covers practical topics including uniform Bezier and B Spline curves polyhedral meshes Catmull Clark subdivision for quad meshes and objects with sharp creases and pointed vertices A companion website provides example code and concept implementations of subdivision concepts in an interactive Mathematica environment

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Service Life Prediction of Polymeric Materials Jonathan W Martin, Rose Ann Ryntz, Joannie Chin, Ray Dickie, 2008-11-16 Service Life Prediction of Polymeric Materials Global Perspectives combines developed content derived from topics discussed in the Fourth International Symposium on Service Life Prediction Key Largo Florida December 2006 This critical examination of the existing and alternative methodologies used to assess the service life of polymeric materials presents readers with the advances in accelerated and field exposure testing protocols Written by established experts in the service life community this volume introduces advanced methods including high throughput and combinatorial analyses models data collection and storage formats Researchers and engineers involved with materials and polymer science coatings technologists and automotive materials will find Service Life Prediction of Polymeric Materials Global Perspectives a useful tool

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

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 Casteljau 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 Conic Sections 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 Geometric Continuity for Surfaces 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

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 many more 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 than 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

Ray Tracing from the Ground Up Kevin Suffern, 2016-04-19 With the increase in computing speed and due to the high quality of the optical effects it achieves ray tracing is becoming a popular choice for interactive and animated rendering This book takes readers through the whole process of building a modern ray tracer from scratch in C All concepts and processes are explained in detail with the aid of

Complete Maya Programming Volume II David Gould, 2005-08-05 David Gould's acclaimed first book Complete Maya Programming An Extensive Guide to MEL and the C API provides artists and

programmers with a deep understanding of the way Maya works and how it can be enhanced and customized through programming In his new book David offers a gentle intuitive introduction to the core ideas of computer graphics Each concept is explained progressively and is fully implemented in both MEL and C so that an artist or programmer can use the source code directly in their own programs Geometry and modeling are covered in detail with progressively more complex examples demonstrating all of Maya s possible programming features David Gould s first volume is widely regarded as the most authoritative reference on Maya programming Volume II continues this tradition and provides an unmatched guide for the artist and programmer tackling complex tasks Covers a spectrum of topics in computer graphics including points and vectors rotations transformations curves and surfaces polygonal NURBS subdivision and modeling Offers insights to Maya s inner workings so that an artist or programmer can design and develop customized tools and solutions Discusses problem solving with MEL Maya s scripting language and the more powerful and versatile C API with plenty of code examples for each

Physically Based Rendering Matt Pharr,Greg Humphreys,2010-06-28 This updated edition describes both the mathematical theory behind a modern photorealistic rendering system as well as its practical implementation Through the ideas and software in this book designers will learn to design and employ a full featured rendering system for creating stunning imagery Includes a companion site complete with source code for the rendering system described in the book with support for Windows OS X and Linux

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 to master Maya Provides a storehouse of MEL scripts and C source code glossary and list of resources available at www.davidgould.com

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