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Carl de Boor

A Practical Guide to Splines

Revised Edition



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A Practical Guide To Splines

Rong-Qing Jia



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Theory and Practice of Geometric Modeling Wolfgang Straßer, Hans-Peter Seidel, 2012-12-06 This book is a result of the lectures and discussions during the conference Theory and Practice of Geometric Modeling The event has been organized by the Wilhelm Schickard Institut für Informatik Universität Tübingen and took place at the Heinrich Fabri Institut in Blaubeuren from October 3 to 7 1988 The conference brought together leading experts from academic and industrial research institutions CAD system developers and experienced users to exchange their ideas and to discuss new concepts and future directions in geometric modeling The main intention has been to bridge the gap between theoretical results performance of existing CAD systems and the real problems of users The contents is structured in five parts A Algorithmic Aspects B Surface Intersection Blending Ray Tracing C Geometric Tools D Different Representation Schemes in Solid Modeling E Product Modeling in High Level Specifications The material presented in this book reflects the current state of the art in geometric modeling and should therefore be of interest not only to university and industry researchers but also to system developers and practitioners who wish to keep up to date on recent advances and new concepts in this rapidly expanding field The editors express their sincere appreciation to the contributing authors and to the members of the program committee W Boehm J Hoschek A Massabo H Nowacki M Pratt J Rossignac T Sederberg and W Tiller for their close cooperation and their time and effort that made the conference and this book a success

Practical Guide to Splines; Applied Mathematical Sciences 27 C. De Boor, 1978 **Handbook of**

Computer Aided Geometric Design G. Farin, J. Hoschek, M.-S. Kim, 2002-08-13 This book provides a comprehensive coverage of the fields Geometric Modeling Computer Aided Design and Scientific Visualization or Computer Aided Geometric Design Leading international experts have contributed thus creating a one of a kind collection of authoritative articles There are chapters outlining basic theory in tutorial style as well as application oriented articles Aspects which are covered include Historical outline Curve and surface methods Scientific Visualization Implicit methods Reverse engineering This book is meant to be a reference text for researchers in the field as well as an introduction to graduate students wishing to get some exposure to this subject

Knot Insertion and Deletion Algorithms for B-Spline Curves and Surfaces Ronald N. Goldman, Tom Lyche, 1993-01-01 New approaches to knot insertion and deletion are presented in this unique detailed approach to understanding analyzing and rendering B spline curves and surfaces Computer scientists mechanical engineers and programmers and analysts involved in CAD and CAGD will find innovative practical applications using the blossoming approach to knot insertion factored knot insertion and knot deletion as well as comparisons of many knot insertion algorithms This book also serves as an excellent reference guide for graduate students involved in computer aided geometric design

Spline Functions Larry L. Schumaker, 2015-01-01 This book describes in detail the key algorithms needed for computing with spline functions and illustrates their use in solving several basic problems in numerical analysis including function approximation numerical quadrature data fitting and the numerical solution of PDE s The focus is on computational methods for bivariate splines on triangulations in the plane and on the sphere although both univariate and tensor product splines are also discussed The book contains numerous examples and figures to illustrate the methods and their performance All of the algorithms in the book have been coded in a separate MATLAB package available for license The package can be used to run all of the examples in the book and also provides readers with the essential tools needed to create software for their own applications In addition to the included bibliography a list of over 100 pages of additional references can be found on the book s website

Modeling Time-Varying Unconditional Variance by Means of a Free-Knot Spline-GARCH Model Oliver Old, 2022-07-27 The book addresses the problem of a time varying unconditional variance of return processes utilizing a spline function The knots of the spline functions are estimated as free parameters within a joined estimation process together with the parameters of the mean the conditional variance and the spline function With the help of this method the knots are placed in regions where the unconditional variance is not smooth The results are tested within an extensive simulation study and an empirical study employing the S P500 index

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A Practical Guide to AutoCAD 3D Design Trevor Bousfield, 1999 This book teaches engineering students the fundamentals of 3D CAD design by having them design a

microscope To encourage creative thinking the text provides problems that students must solve to complete the project

Boundary Effects on Smoothing Splines Karen Sue Messer,1985 *Spline Interpolation and Some Related Topics*

Rong-Qing Jia,1983 **Complex Contour Integral Representation of Cardinal Spline Functions** Walter Schempp,1982

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 EUROGRAPHICS '86 Aristides A. G. Requicha,1986

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