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de Boor

A Practical Guide to Splines
Revised Edition

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Carl de Boor

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A Practical Guide To Splines

C. De Boor



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A Practical Guide to Splines Carl De Boor, 1978-01-01 *A Practical Guide to Splines* Carl de Boor, 2001-12-13 This book is based on the author's experience with calculations involving polynomial splines presenting those parts of the theory especially useful in calculations and stressing the representation of splines as weighted sums of B splines The B spline theory is developed directly from the recurrence relations without recourse to divided differences This reprint includes redrawn figures and most formal statements are accompanied by proofs

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An Introduction to Splines for Use in Computer Graphics and Geometric Modeling Richard H. Bartels, John C. Beatty, Brian A. Barsky, 1995-09 As the field of computer graphics develops techniques for modeling complex curves and surfaces are increasingly important A major technique is the use of parametric splines in which a curve is defined by piecing together a succession of curve segments and surfaces are defined by stitching together a mosaic of surface patches An Introduction to Splines for Use in Computer Graphics and Geometric Modeling discusses the use of splines from the point of view of the computer scientist Assuming only a background in beginning calculus the authors present the material using many examples and illustrations with the goal of building the reader's intuition Based on courses given at the University of California Berkeley and the University of Waterloo as well as numerous ACM Siggraph tutorials the book includes the most recent advances in computer aided geometric modeling and design to make spline modeling techniques generally accessible to the computer graphics and geometric modeling communities

A Practical Guide to Data Analysis Using R John H. Maindonald, W. John Braun, Jeffrey L. Andrews, 2024-05-30 Examples from diverse areas of statistical application demonstrate the use of R for data analysis and associated graphics

A Handbook of Time-series Analysis, Signal Processing and Dynamics D. S. G. Pollock, 1999 CD ROM contains Pascal and C code and programs bibliography of the book text of book tutorials

AutoCAD: A Practical Guide Pasquale De Marco, 2025-05-03 AutoCAD A Practical Guide is a comprehensive guide to AutoCAD the world's leading CAD software This book covers everything from the basics to advanced techniques in a clear and concise style with step by step instructions and plenty of illustrations Whether you're a beginner or an experienced user this book will help you get the most

out of AutoCAD You ll learn how to create and edit 2D and 3D drawings use the various tools and commands in AutoCAD customize AutoCAD to suit your needs and troubleshoot common problems This book is also packed with tips and tricks to help you work more efficiently With AutoCAD A Practical Guide you ll be able to take your AutoCAD skills to the next level Here s what you ll learn in AutoCAD A Practical Guide How to create and edit 2D and 3D drawings How to use the various tools and commands in AutoCAD How to customize AutoCAD to suit your needs How to troubleshoot common problems And much more With AutoCAD A Practical Guide you ll be able to create amazing things with AutoCAD So what are you waiting for Get started today and see what you can create AutoCAD is a registered trademark of Autodesk Inc If you like this book write a review on google books

Splines And Compartment Models: An Introduction Karl-ernst Erich Biebler,Michael Wodny,2013-07-23 This book presents methods of mathematical modeling from two points of view Splines provide a general approach while compartment models serve as examples for context related to modeling The preconditions and characteristics of the developed mathematical models as well as the conditions surrounding data collection and model fit are taken into account The substantial statements of this book are mathematically proven The results are ready for application with examples and related program codes given In this book splines are algebraically developed such that the reader or user can easily understand and vary the numerical construction of the different kinds of spline functions The classical compartment models of the pharmacokinetics are systematically analyzed and connected with lifetime distributions As such parameter estimation and model fit can be treated statistically with a varied minimum chi square method This method is applicable for single kinetics and also allows the calculation of average kinetics

Handbook of Splines Gheorghe Micula,Sanda Micula,2012-12-06 The purpose of this book is to give a comprehensive introduction to the theory of spline functions together with some applications to various fields emphasizing the significance of the relationship between the general theory and its applications At the same time the goal of the book is also to provide new material on spline function theory as well as a fresh look at old results being written for people interested in research as well as for those who are interested in applications The theory of spline functions and their applications is a relatively recent field of applied mathematics In the last 50 years spline function theory has undergone a wonderful development with many new directions appearing during this time This book has its origins in the wish to adequately describe this development from the notion of spline introduced by I J Schoenberg 1901 1990 in 1946 to the newest recent theories of spline wavelets or spline fractals Isolated facts about the functions now called splines can be found in the papers of L Euler A Lebesgue G Birkhoff J

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Spline Functions Larry L. Schumaker,2015-08-13 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

Approximation and Modeling with B-Splines Klaus Hollig,Jorg Horner,2015-07-01 B splines are fundamental to approximation and data fitting geometric modeling automated manufacturing computer graphics and numerical simulation With an emphasis on key results and methods that are most widely used in practice this textbook provides a unified introduction to the basic components of B spline theory approximation methods mathematics modeling techniques engineering and geometric algorithms computer science A supplemental Web site will provide a collection of problems some with solutions slides for use in lectures and programs with demos

Splines and PDEs: From Approximation Theory to Numerical Linear Algebra Angela Kunoth,Tom Lyche,Giancarlo Sangalli,Stefano Serra-Capizzano,2018-09-20 This book takes readers on a multi perspective tour through state of the art mathematical developments related to the numerical treatment of PDEs based on splines and in particular isogeometric methods A wide variety of research topics are covered ranging from approximation theory to structured numerical linear algebra More precisely the book provides i a self contained introduction to B splines with special focus on approximation and hierarchical refinement ii a broad survey of numerical schemes for control problems based on B splines and B spline type wavelets iii an exhaustive description of methods for computing and analyzing the spectral distribution of discretization matrices and iv a detailed overview of the mathematical and implementational aspects of isogeometric analysis The text is the outcome of a C I M E summer school held in Cetraro Italy July 2017 featuring four prominent lecturers with different theoretical and application perspectives The book may serve both as a reference and an entry point into further research

An Isogeometric Approach to Beam Structures Buntara S. Gan,2017-06-01 This book proposes a novel original condensation method to beam formulation based on the isogeometric approach to reducing the degrees of freedom to conventional two node beam elements In this volume the author defines the Buntara Condensation Formulation a unique formulation in condensing the dynamic equilibrium equation for beam structures suitable for reducing the number of unlimited dynamic equations necessary to yield a classic two node beam element Professor Buntara s method overcomes the problem of the isogeometric approach where the number of degrees of freedom is increased along with the complexity of the geometrical beam element and facilitates implementation of the codes into the existing beam structures programs and CAD geometrical data into the conventional FE beam element codes The book proposes a new reduction method where the beam element can be treated as under the conventional beam element theory that has only two nodes at both ends

An Introduction to Numerical Methods and Analysis James F. Epperson,2013-06-06 Praise for the First Edition

outstandingly appealing with regard to its style contents considerations of requirements of practice choice of examples and exercises Zentrablatt Math carefully structured with many detailed worked examples The Mathematical Gazette an up to date and user friendly account Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from why they sometimes work or don't work and when to use one of the many techniques that are available Written in a style that emphasizes readability and usefulness for the numerical methods novice the book begins with basic elementary material and gradually builds up to more advanced topics A selection of concepts required for the study of computational mathematics is introduced and simple approximations using Taylor's Theorem are also treated in some depth The text includes exercises that run the gamut from simple hand computations to challenging derivations and minor proofs to programming exercises A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book An Introduction to Numerical Methods and Analysis is the ideal text for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis

Knot Insertion and Deletion Algorithms for B-Spline Curves and Surfaces Ronald N. Goldman, Tom Lyche, 1993-01-01 New approaches in knot insertion and deletion to understanding analyzing and rendering B spline curves and surfaces

Modern developments in multivariate approximation Werner Haussmann, 2003-10-24 This volume contains a selection of eighteen peer reviewed articles that were presented at the 5th International Conference on Multivariate Approximation held in Witten Bommerholz in September 2002 The contributions cover recent developments of constructive approximation on manifolds approximation by splines and kernels subdivision techniques and wavelet methods The main topics are applications of multivariate approximation in finance approximation and stable reconstruction of images data reduction multivariate splines for Lagrange interpolation and quasi interpolation radial basis functions spherical point sets refinable function vectors and non stationary subdivision applications of adaptive wavelet methods blending functions and cubature formulae singularities of harmonic functions The book provides an overview of state of the art developments in a highly relevant field of applied mathematics with many links to computer science and geophysics

Insight Through Computer Graphics - Proceedings Of The Computer Graphics International 1994 (Cg194) Michael Gigante, Toshiyasu L. Kunii, 1997-01-03 Computer graphics has been advancing to the level of creating completely new worlds inside computers Through such computer graphics worlds we human beings now have far improved insight into wide varieties of real worlds starting from fairly simple but exact worlds of curves and surfaces and reaching to complex human worlds This volume presents a quite concrete and advanced methods techniques modeling and mathematical backgrounds which are indispensable in order to carry out end researches to increase insight through computer graphics

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

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