

Mathematics and Its Applications

**B. D. Bojanov, H. A. Hakopian
and A. A. Sahakian**

**Spline Functions and
Multivariate Interpolations**



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**Borislav D. Bojanov, H. Hakopian, B.
Sahakian**

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Spline Functions and Multivariate Interpolations Borislav D. Bojanov, H. Hakopian, B. Sahakian, 1993-03-31 This volume provides a comprehensive introduction to the theory of spline functions Emphasis is given to new developments such as the general Birkhoff type interpolation the extremal properties of splines their prominent role in the optimal recovery of functions and multivariate interpolation by polynomials and splines The book has thirteen chapters dealing respectively with interpolation by algebraic polynomials the space of splines B splines interpolation by spline functions natural spline functions perfect splines monosplines periodic splines multivariate B splines and truncated powers multivariate spline functions and divided differences box splines multivariate mean value interpolation multivariate polynomial interpolations arising by hyperplanes and multivariate pointwise interpolation Some of the results described are presented as exercises and hints are given for their solution For researchers and graduate students whose work involves approximation theory

Spline Functions and Multivariate Interpolations Borislav D. Bojanov, H. Hakopian, B. Sahakian, 2013-06-29 Spline functions entered Approximation Theory as solutions of natural extremal problems A typical example is the problem of drawing a function curve through given n k points that has a minimal norm of its k th derivative Isolated facts about the functions now called splines can be found in the papers of L Euler A Lebesgue G Birkhoff J Favard L Tschakaloff However the Theory of Spline Functions has developed in the last 30 years by the effort of dozens of mathematicians Recent fundamental results on multivariate polynomial interpolation and multivariate splines have initiated a new wave of theoretical investigations and variety of applications The purpose of this book is to introduce the reader to the theory of spline functions The emphasis is given to some new developments such as the general Birkhoff's type interpolation the extremal properties of the splines and their prominent role in the optimal recovery of functions multivariate interpolation by polynomials and splines The material

presented is based on the lectures of the authors given to the students at the University of Sofia and Yerevan University during the last 10 years Some more elementary results are left as excercises and detailed hints are given **Multivariate Splines** Charles K. Chui, 1988-01-01 The subject of multivariate splines has become a rapidly growing field of mathematical research The author presents the subject from an elementary point of view that parallels the theory and development of univariate spline analysis To compensate for the missing proofs and details an extensive bibliography has been included There is a presentation of open problems with an emphasis on the theory and applications to computer aided design data analysis and surface fitting Applied mathematicians and engineers working in the areas of curve fitting finite element methods computer aided geometric design signal processing mathematical modelling computer aided design computer aided manufacturing and circuits and systems will find this monograph essential to their research **Multivariate**

Approximation and Splines Günther Nürnberger, Jochen W. Schmidt, Guido Walz, 2012-12-06 This book contains the refereed papers which were presented at the international conference on Multivariate Approximation and Splines held in Mannheim Germany on September 7 10 1996 Fifty experts from Bulgaria England France Israel Netherlands Norway Poland Switzerland Ukraine USA and Germany participated in the symposium It was the aim of the conference to give an overview of recent developments in multivariate approximation with special emphasis on spline methods The field is characterized by rapidly developing branches such as approximation data fitting interpolation splines radial basis functions neural networks computer aided design methods subdivision algorithms and wavelets The research has applications in areas like industrial production visualization pattern recognition image and signal processing cognitive systems and modeling in geology physics biology and medicine In the following we briefly describe the contents of the papers Exact inequalities of Kolmogorov type which estimate the derivatives of multivariate functions are derived in the paper of BABENKO KOFANOV and tivariate periodic functions are derived in PICHUGOV These inequalities are applied to the approximation of classes of multivariate periodic functions and to the approximation by quasi polynomials BAINOV DISHLIEV and HRISTOVA investigate initial value problems for non linear impulse differential difference equations which have many applications in simulating real processes By applying iterative techniques sequences of lower and upper solutions are constructed which converge to a solution of the initial value problem

Approximation Theory and Spline Functions S.P. Singh, J.H.W. Burry, B. Watson, 2012-12-06 A NATO Advanced Study Institute on Approximation Theory and Spline Functions was held at Memorial University of Newfoundland during August 22 September 2 1983 This volume consists of the Proceedings of that Institute These Proceedings include the main invited talks and contributed papers given during the Institute The aim of these lectures was to bring together Mathematicians Physicists and Engineers working in the field The lectures covered a wide range including Multivariate Approximation Spline Functions Rational Approximation Applications of Elliptic Integrals and Functions in the Theory of Approximation and Pade Approximation We express our sincere thanks to Professors E W Cheney J Meinguet J M Phillips and H Werner members of

the International Advisory Committee We also extend our thanks to the main speakers and the invited speakers whose contributions made these Proceedings complete The Advanced Study Institute was financed by the NATO Scientific Affairs Division We express our thanks for the generous support We wish to thank members of the Department of Mathematics and Statistics at Memorial University who willingly helped with the planning and organizing of the Institute Special thanks go to Mrs Mary Pike who helped immensely in the planning and organizing of the Institute and to Miss Rosalind Genge for her careful and excellent typing of the manuscript of these Proceedings

Topics in Multivariate Approximation C. K. Chui,L. L.

Schumaker,F.I. Utreras,2014-05-10 Topics in Multivariate Approximation contains the proceedings of an international workshop on multivariate approximation held at the University of Chile in Santiago Chile on December 15 19 1986 Leading researchers in the field discussed several problem areas related to multivariate approximation and tackled topics ranging from multivariate splines and fitting of scattered data to tensor approximation methods and multivariate polynomial approximation Numerical grid generation and finite element methods were also explored along with constrained interpolation and smoothing Comprised of 22 chapters this book first describes the application of Boolean methods of approximation in combination with the theory of right invertible operators to bivariate Fourier expansions The reader is then introduced to ill posed problems in multivariate approximation interpolation of scattered data by radial functions and shape preserving surface interpolation Subsequent chapters focus on approximation by harmonic functions numerical generation of nested series of general triangular grids triangulation methods and inequalities arising from best local approximations in rectangles A bibliography of multivariate approximation concludes the book This monograph will be of interest to

mathematicians

Frontiers in Interpolation and Approximation N. K. Govil,H. N. Mhaskar,Ram N. Mohapatra,Zuhair

Nashed,J. Szabados,2006-07-20 Dedicated to the well respected research mathematician Ambikeshwar Sharma Frontiers in Interpolation and Approximation explores approximation theory interpolation theory and classical analysis Written by authoritative international mathematicians this book presents many important results in classical analysis wavelets and

interpolati

Numerical Computation 1 Christoph W. Ueberhuber,1997-02-27 This book deals with various aspects of

scientific numerical computing No attempt was made to be complete or encyclopedic The successful solution of a numerical problem has many facets and consequently involves different fields of computer science Computer numerics as opposed to computer algebra is thus based on applied mathematics numerical analysis and numerical computation as well as on certain areas of computer science such as computer architecture and operating systems Applied Mathematics I I I Numerical Analysis Analysis Algebra I I Numerical Computation Symbolic Computation I Operating Systems Computer Hardware Each chapter begins with sample situations taken from specific fields of application Abstract and general formulations of mathematical problems are then presented Following this abstract level a general discussion about principles and methods for the numerical solution of mathematical problems is presented Relevant algorithms are developed and their efficiency and

the accuracy of their results is assessed It is then explained as to how they can be obtained in the form of numerical software The reader is presented with various ways of applying the general methods and principles to particular classes of problems and approaches to extracting practically useful solutions with appropriately chosen numerical software are developed

Potential difficulties and obstacles are examined and ways of avoiding them are discussed The volume and diversity of all the available numerical software is tremendous

Introduction to Color Imaging Science Hsien-Che Lee,2005-02-24 Colour

imaging technology has become almost ubiquitous in modern life in the form of monitors liquid crystal screens colour printers scanners and digital cameras This book is a comprehensive guide to the scientific and engineering principles of colour imaging It covers the physics of light and colour how the eye and physical devices capture colour images how colour is measured and calibrated and how images are processed It stresses physical principles and includes a wealth of real world examples The book will be of value to scientists and engineers in the colour imaging industry and with homework problems can also be used as a text for graduate courses on colour imaging

Mathematical Methods for Curves and Surfaces Tom Lyche,Larry L. Schumaker,2001 This volume contains a carefully refereed and edited selection of papers that were presented at the Oslo Conference on Mathematical Methods for Curves and Surfaces in July 2000 It contains several invited surveys written by leading experts in the field along with contributed research papers on the most current developments in the theory and application of curves and surfaces Page 4 de la couverture

Multivariate Polynomial Natural Splines for Interpolation of Scattered Data and Other Applications C. K. Chui,L. T. Guan,1990 Based on the general Hilbert space theory of spline interpolation multivariate natural polynomial spline functions are introduced as a generalization of the well known univariate natural polynomial splines Explicit formulations of these spline interpolants without boundary conditions to scattered data on certain bounded domains in \mathbb{R}^n are constructed It turns out that these new multivariate spline interpolants are fairly easy to implement and hence should be very useful in multivariate numerical analysis such as numerical integrations and numerical solutions of partial differential equations

The General Problem of Approximation and Spline Functions Anthony S. B. Holland,Badri N. Sahney,1979

CMS Technical Summary Report University of

Wisconsin--Madison. Center for the Mathematical Sciences,1994

Russian Mathematical Surveys ,1993

Topics in

Multivariate Approximation and Interpolation Kurt Jetter,Martin Buhmann,Werner Haussmann,Robert Schaback,Joachim Stoeckler,2005-11-15 This book is a collection of eleven articles written by leading experts and dealing with special topics in Multivariate Approximation and Interpolation The material discussed here has far reaching applications in many areas of Applied Mathematics such as in Computer Aided Geometric Design in Mathematical Modelling in Signal and Image Processing and in Machine Learning to mention a few The book aims at giving a comprehensive information leading the reader from the fundamental notions and results of each field to the forefront of research It is an ideal and up to date introduction for graduate students specializing in these topics and for researchers in universities and in industry A collection

of articles of highest scientific standard An excellent introduction and overview of recent topics from multivariate approximation A valuable source of references for specialists in the field A representation of the state of the art in selected areas of multivariate approximation A rigorous mathematical introduction to special topics of interdisciplinary research

Mathematics of Computation ,1983 Original articles on all aspects of numerical mathematics book reviews mathematical tables and technical notes Covers advances in numerical analysis application of computer methods high speed calculating and other aids to computation

Approximations, with Special Emphasis on Spline Functions I. J. Schoenberg,1969

This volume contains the proceedings of a symposium on approximations with special emphasis on spline functions held in Madison Wisconsin on May 5 7 1969 and sponsored by Mathematics Research Center United States Army the University of Wisconsin Spline functions are a good tool for the numerical approximation of functions and they suggest new challenging and rewarding problems From 1957 to 1964 the various optimal properties of spline functions were discovered and their relationships clarified The number of mathematicians engaged in practical or theoretical spline analysis has considerably increased and these proceedings show some of the current developments and trends

Approximation Theory VI C. K.

Chui,Larry L. Schumaker,J. D. Ward,1989

A Book of Splines Arthur Sard,Sol Weintraub,1971

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